WKE

SEPTEMBER 2021

PROJECT ID: 2150-00-72

WITH: 2270-04-70, 2565-07-70

COUNTY: MILWAUKEE

ORDER OF SHEETS

Section No.	1	Title
~~Section No.~~	~~2~~	~~Typical Sections and Details~~
Section No.	3	Estimate of Quantities
~~Section No.~~	~~3~~	~~Miscellaneous Quantities~~
~~Section No.~~	~~4~~	~~Right of Way Plat~~
Section No.	5	Plan and Profile
Section No.	6	Standard Detail Drawings
~~Section No.~~	~~7~~	~~Sign Plates~~
Section No.	8	Structure Plans
~~Section No.~~	~~9~~	~~Computer Earthwork Data~~
~~Section No.~~	~~9~~	~~Cross Sections~~

TOTAL SHEETS = 24



24

N

DESIGN DESIGNATION

A.A.D.T.	2017	=	25800
A.A.D.T.	2041	=	28800
D.H.V.		=	---
D.D.		=	--/--
T.		=	--%
DESIGN SPEED		=	50
ESALS		=	---

CONVENTIONAL SYMBOLS

PLAN

- CORPORATE LIMITS
- PROPERTY LINE
- LOT LINE
- LIMITED HIGHWAY EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- SLOPE INTERCEPT
- REFERENCE LINE (300'EB')
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

PROFILE

- GRADE LINE
- ORIGINAL GROUND
- MARSH OR ROCK PROFILE (To be noted as such) (ROCK)
- SPECIAL DITCH (LABEL)
- GRADE ELEVATION (95.36)
- CULVERT (Profile View)

UTILITIES

- ELECTRIC (E)
- FIBER OPTIC (FO)
- GAS (G)
- SANITARY SEWER (SAN)
- STORM SEWER (SS)
- TELEPHONE (T)
- WATER (W)
- UTILITY PEDESTAL
- POWER POLE
- TELEPHONE POLE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

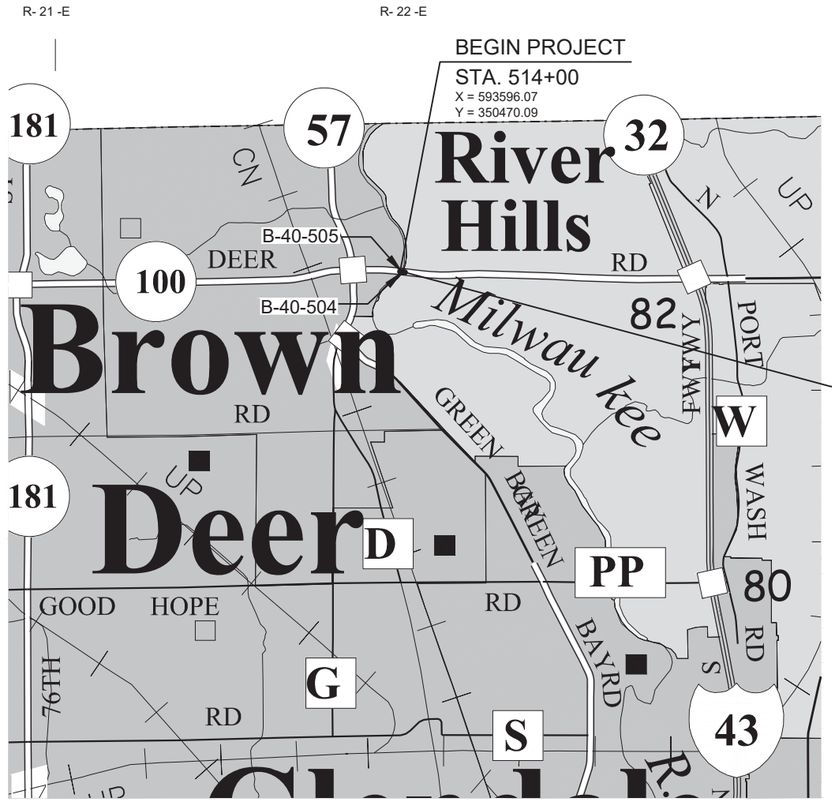
BROWN DEER ROAD

STH 100, B-40-504, B-40-505

STH 100
MILWAUKEE COUNTY

STATE PROJECT NUMBER
2150-00-72

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
2150-00-72	———	—
2270-04-70	WISC 2021441	1
2565-07-70	WISC 2021442	1



LAYOUT SCALE 0 — 1.0 MI

TOTAL NET LENGTH OF CENTERLINE = 0.048 MILES

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, MILWAUKEE COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES.

GRID DISTANCES MAY BE USED AS GROUND DISTANCES. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM, NAVD 88(2012)

ORIGINAL PLANS PREPARED BY
Lakeside ENGINEERS

WISCONSIN
CHRISTOPHER M QUESNELL
E-37621
NEW BERLIN WI
PROFESSIONAL ENGINEER

4/28/21 (Date) Chris Quesnell (Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	DAAR ENGINEERING
Designer	LAKESIDE ENGINEERS
Project Manager	ALLEN GILBERTSON
Regional Examiner	REGIONAL EXAMINER
Regional Supervisor	JANET CANNON, P.E.

APPROVED FOR THE DEPARTMENT

DATE: 4/28/2021 Allen Gilbertson (Signature)

E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\2150-00-72\010101_TI.DWG

PLOT DATE : 3/4/2021 4:33 PM

PLOT BY : TONY BUBLITZ

PLOT NAME :

ORDER OF SECTION 2 SHEETS

PROJECT OVERVIEW

ABBREVIATIONS

ADT	AVERAGE DAILY TRAFFIC
AGG	AGGREGATE
BAD	BASE AGGREGATE DENSE
BM	BENCH MARK
CB	CATCH BASIN
C&G	CURB AND GUTTER
C-C	CENTER TO CENTER
CONC	CONCRETE
CSD	CONCRETE SURFACE DRAIN
CTR	CENTER
CWT	HUNDREDWEIGHT
CY	CUBIC YARD
D	DEGREE OF CURVE
Δ	DELTA
DD	DIRECTIONAL DISTRIBUTION
DHV	DESIGN HOUR VOLUME
DIA	DIAMETER
E	EAST
EB	EASTBOUND
EL OR ELEV	ELEVATION
EXIST	EXISTING
FS	FULL SUPERELEVATION
FT	FOOT
HE	HIGHWAY EASEMENT
HMA	HOT MIX ASPHALT
INCID	INCIDENTAL
INL	INLET
L	LENGTH OF CURVE
LF	LINEAR FOOT
LONG	LONGITUDINAL
LT	LEFT
MH	MANHOLE
MIN	MINIMUM
ML OR M/L	MATCH LINE
N	NORTH
NB	NORTHBOUND
NC	NORMAL CROWN
NTS	NOT TO SCALE
PAVT	PAVEMENT
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PI	POINT OF INTERSECTION
PLE	PERMANENT LIMITED EASEMENT
PT	POINT OF TANGENCY
PVC	POINT OF VERTICAL CURVATURE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
R	RADIUS
RCPSS	REINFORCED CONCRETE PIPE STORM SEWER
REQD	REQUIRED
R/L	REFERENCE LINE
RO	RUN OFF LENGTH
RT	RIGHT
RW OR R/W	RIGHT-OF-WAY
S	SOUTH
SB	SOUTHBOUND
SDD	STANDARD DETAIL DRAWING
SHT	SHEET
SI	SLOPE INTERCEPT
SS	STORM SEWER
STA	STATION
SY	SQUARE YARD
SYM	SYMMETRICAL
T	TANGENT LENGTH
TEMP	TEMPORARY
TYP	TYPICAL
V	VELOCITY OR DESIGN SPEED
VAR	VARIABLE OR VARIES
W	WEST
WB	WESTBOUND
YD	YARD

UTILITIES

AT&T Wisconsin - Communication Line
Jeff Oldenburg
2005 Pewaukee Rd
Waukesha, WI 53188-2443
(262) 896-7522
jo2376@att.com

Midwest Fiber Networks LLC - Communication Line
Cory Schmuki
6070 North Flint Rd
Glendale, WI 53209
(414) 459-3561
cschmuki@midwestfibernetwors.com

Milwaukee Metropolitan Sewerage District - Sewer
Jim Romanowski
260 W Seeboth St
Milwaukee, WI 53204-1446
(414) 225-2241

Spectrum- Communication Line
Beau Abuya
1320 N Dr Martin Luther King Jr Dr
Milwaukee, WI 53212-4002
(414) 758-92411
beau.abuya@charter.com

Village of Brown Deer – Sanitary Sewer
Matthew Maederer
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Brown Deer, WI 53223-2496
(414) 371-3021
mmaeder@browndeerwi.org

We Energies - Electric
Gregory Boerner
500 S 116th Street
West Allis, WI 45214
(618) 409-5861
gregory.boerner@we-energies.com

We Energies - Gas/Petroleum
Jacob Hulbert
500 S 116th Street
West Allis, WI 45214
(414) 944-5575
jacob.hulbert@we-energies.com

LOCAL AGENCIES

Milwaukee County Department of Transportation - Road Facility
Eduardo Santiago
10320 W. Watertown Plank Rd.
Milwaukee, WI 53226
(414) 257-6569
eduardo.santiago@milwaukeecountywi.gov

STATE AGENCIES

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141 NW Barstow St
Waukesha, WI 53187-0798
(414) 750-3085
Kurt.Flierl@dot.wi.gov

Wisconsin Department of Natural Resources
Kristina Betzold
2300 North Dr Martin Luther King Jr Dr
Milwaukee, WI 53212
(414) 507-4946
kristina.betzold@wisconsin.gov

WisDOT Street Lighting
Eric Perea
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Waukesha, WI 53087
(414) 750-0935
eric.perea@dot.wi.gov

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Rob Merry
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P.O. Box 1607
Waukesha, wi 53187
(262) 953-4289
rmerry@sewrpc.org

Milwaukee County Transit System
1942 N 17th Street
Milwaukee, WI 53205

Melanie Flynn
Lead Coordinator of Street Supervision (Routes)
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mflynn@mcts.org

Armond Sensabaugh
Transit Planner (Stops/Shelters)
(414) 343-1728
asensabaugh@mcts.org

David Locher
Transportation Specialist (Detour/Special Events)
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dlocher@mcts.org

DESIGNER

Lakeside Engineers, LLC
Chris Quesnell
909 N Mayfair Rd
Wauwatosa, WI 53226
(262) 789-8200
Chris.Quesnell@lakesideengineers.com

DIGGERS HOTLINE
Dial 811 or (800)242-8511
www.DiggersHotline.com

GENERAL NOTES

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. THE CONTRACTOR IS FULLY RESPONSIBLE FOR LOCATING AND AVOIDING ALL UNDERGROUND AND ABOVE GROUND STRUCTURES AND FACILITIES.

TRAFFIC CONTROL DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

WETLAND, WATERWAYS, AND OTHER ENVIRONMENTALLY SENSITIVE AREAS SHALL BE PROTECTED AT ALL TIMES. DO NOT STORE EQUIPMENT OR MATERIAL NEAR THESE SITES UNLESS APPROVED BY THE ENGINEER.

NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY LOCAL MUNICIPAL UTILITY WHICH IS NOT A MEMBER OF THE DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.

CONTACT THE PROJECT ENGINEER AND THE SOUTHEASTERN WISCONSIN REGIONAL PLANNING COMMISSION (SEWRPC) AT LEAST TWO WEEKS PRIOR TO WORK NEAR ANY PUBLIC SURVEY MONUMENT.

SAW CUTS IN EXISTING PAVEMENT AND SIDEWALKS SHALL BE TO NEAT STRAIGHT LINES. EDGES OF SAW CUT EDGES DAMAGED DURING CONSTRUCTION SHALL BE RECUT PRIOR TO ACCEPTANCE FOR PAVING.

VERIFY EXISTING PAVEMENT ELEVATIONS AT ALL TIE-INS TO EXISTING PAVEMENT PRIOR TO CONSTRUCTION. IF A DISCREPANCY IS FOUND BETWEEN PROPOSED PLAN ELEVATIONS AND EXISTING PAVEMENT ELEVATIONS, CONTRACTOR IS TO NOTIFY ENGINEER.

ALL PRIVATE EXISTING UTILITIES ARE TO BE ADJUSTED BY THE UTILITIES CONCERNED.

2

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MILWAUKEE RIVER

UPPER RIVER ROAD

BEGIN PROJECT
STA. 514+00.00
X = 593596.07
Y = 350470.09

END PROJECT
STA. 516+54.95

B-40-505
(EXISTING)

508+00 509+00 510+00 511+00 512+00 513+00 514+00 515+00 516+00 517+00 518+00 519+00 520+00 521+00 522+00 523+

STH 100

END 2270-04-70

B-40-504
(EXISTING)

BEGIN 2270-04-70

PROJECT NO: 2150-00-72	HWY: STH 100	COUNTY: MILWAUKEE	PROJECT OVERVIEW	SHEET 4	E

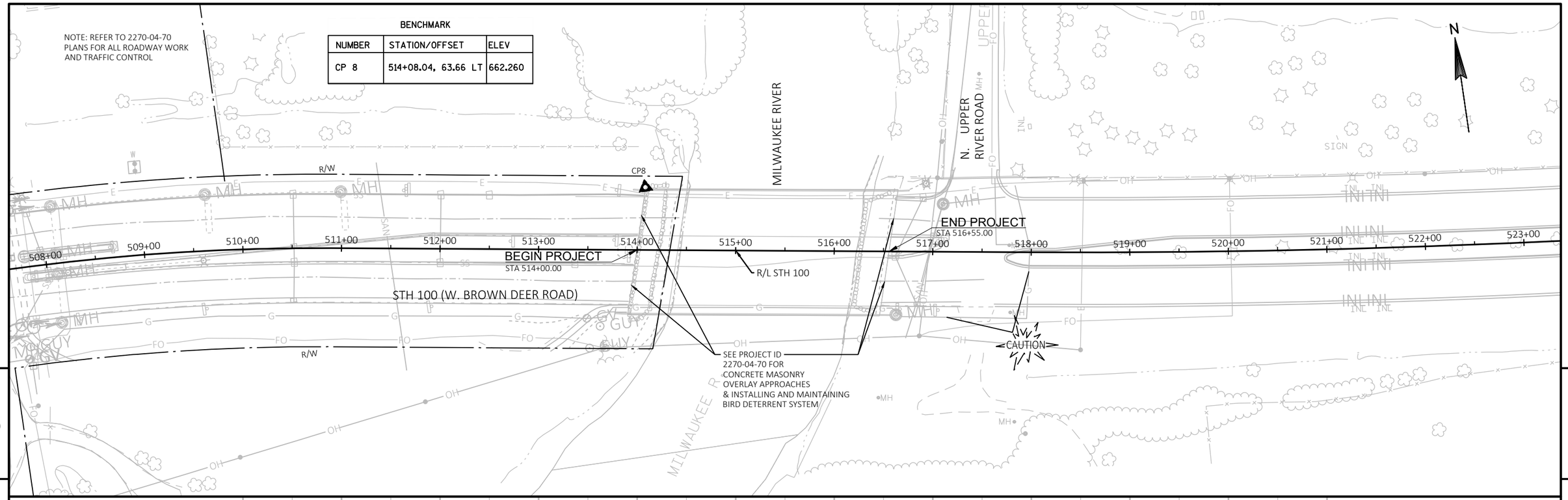
2150-00-72

Line	Item	Item Description	Unit	Total	Qty
0160	502.0100	Concrete Masonry Bridges	CY	1.000	1.000
0162	502.0717.S	Crack Sealing Epoxy	LF	60.000	60.000
0164	502.3200	Protective Surface Treatment	SY	2,377.000	2,377.000
0166	502.3210	Pigmented Surface Sealer	SY	86.000	86.000
0168	502.3215.S	Protective Surface Treatment Reseal	SY	1,288.000	1,288.000
0170	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	50.000	50.000
0174	509.0301	Preparation Decks Type 1	SY	1,273.000	1,273.000
0176	509.0302	Preparation Decks Type 2	SY	955.000	955.000
0178	509.0505.S	Cleaning Decks to Reapply Concrete Masonry Overlay	SY	2,377.000	2,377.000
0182	509.1200	Curb Repair	LF	60.000	60.000
0184	509.1500	Concrete Surface Repair	SF	2,345.000	2,345.000
0186	509.2000	Full-Depth Deck Repair	SY	2.000	2.000
0188	509.2500	Concrete Masonry Overlay Decks	CY	271.000	271.000
0192	509.9005.S	Removing Concrete Masonry Deck Overlay (structure) 30. B-40-504	SY	1,240.000	1,240.000
0194	509.9005.S	Removing Concrete Masonry Deck Overlay (structure) 31. B-40-505	SY	1,137.000	1,137.000
0196	509.9050.S	Cleaning Parapets	LF	512.000	512.000
0366	619.1000	Mobilization	EACH	0.060	0.060
0740	715.0502	Incentive Strength Concrete Structures	DOL	1,626.000	1,626.000
0788	SPV.0060	Special 30. Tubular Railing Repair Type 1	EACH	3.000	3.000
0790	SPV.0060	Special 31. Tubular Railing Repair Type 2	EACH	3.000	3.000
0792	SPV.0060	Special 32. Tubular Railing Repair Type 3	EACH	1.000	1.000
0954	SPV.0165	Special 30. PPC Beam Surface Repair	SF	5.000	5.000

NOTE: REFER TO 2270-04-70
PLANS FOR ALL ROADWAY WORK
AND TRAFFIC CONTROL

BENCHMARK

NUMBER	STATION/OFFSET	ELEV
CP 8	514+08.04, 63.66 LT	662.260



5

5

685
680
675
670
665
660
655
650

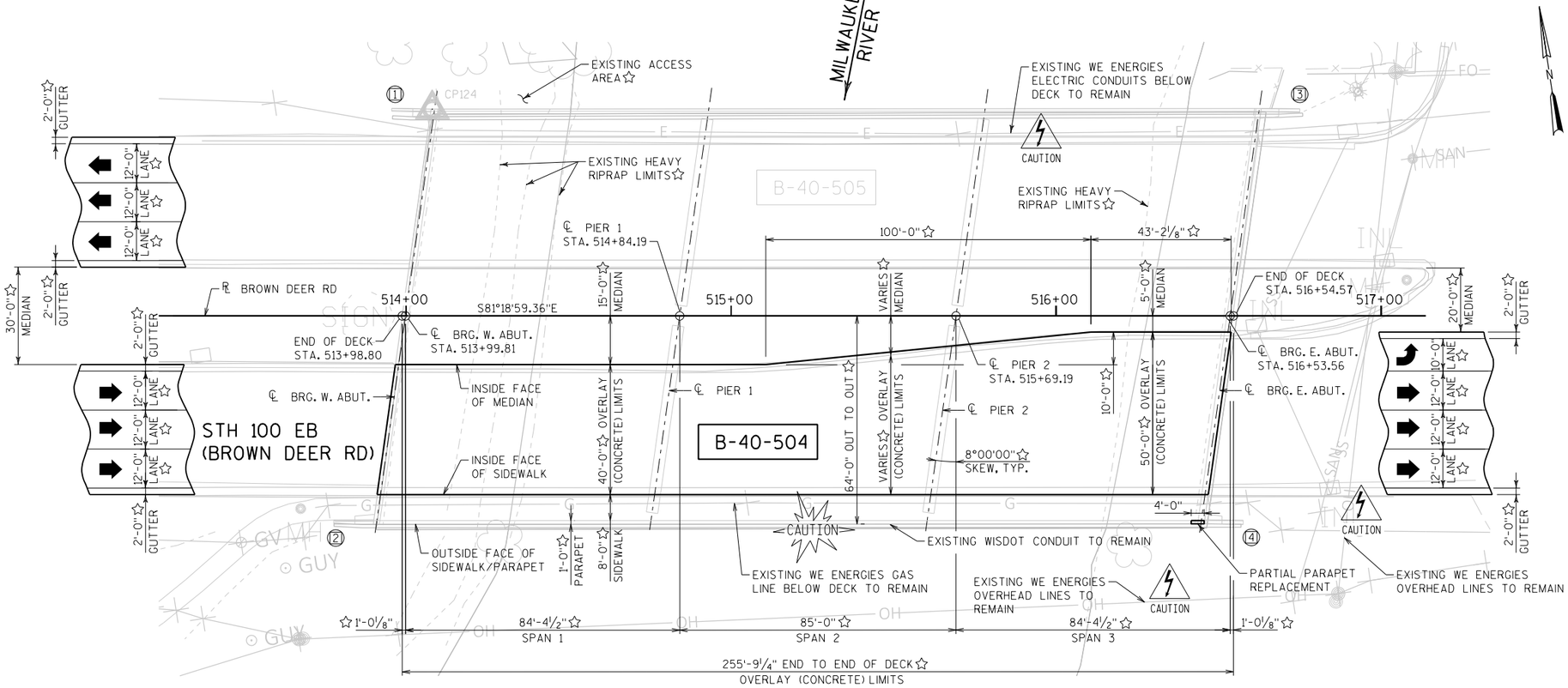
NO PROFILE THIS SHEET

PROJECT NO: 2150-00-72	HWY: STH 100	COUNTY: MILWAUKEE	PLAN AND PROFILE: STH 100 (W. BROWN DEER ROAD)	SHEET 6	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\2150-00-72\050101_PP.DWG
LAYOUT NAME - 050106

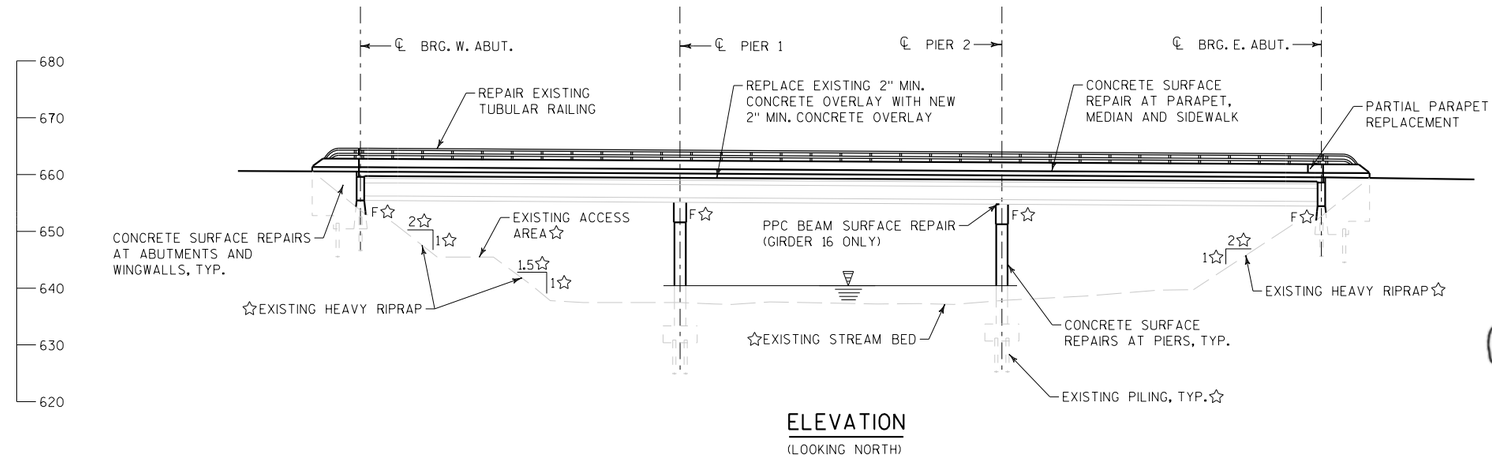
PLOT DATE : 4/30/2021 7:59 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:100 FT

STATE PROJECT NUMBER
2150-00-72



PLAN

3-SPAN 45" PRESTRESSED GIRDERS
(CONCRETE OVERLAY)



ELEVATION

(LOOKING NORTH)

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HS20
INVENTORY RATING: HS16
OPERATING RATING: HS27
WISCONSIN STANDARD PERMIT (WIS-SPV): 210 KIPS

MATERIAL PROPERTIES:

CONCRETE MASONRY.....f'c = 4,000 PSI
BAR STEEL REINFORCEMENT.....fy = 60,000 PSI

LEGEND

➡ DIRECTION OF TRAFFIC

☆ TAKEN FROM ORIGINAL STRUCTURE PLANS DATED MAY 1, 1978

(X) EXISTING WINGWALL NUMBER

LIST OF DRAWINGS

1. GENERAL PLAN & ELEVATION
2. TYPICAL SECTION
3. GENERAL NOTES & QUANTITIES
4. CONSTRUCTION STAGING (1 OF 2)
5. CONSTRUCTION STAGING (2 OF 2)
6. REHABILITATION DETAILS
7. VERTICAL FACE PARAPET 'A' MODIFIED
8. TUBULAR RAILING TYPE 'H' (ALUM.)
9. DECK REHABILITATION AREAS

TRAFFIC DATA

STH 100

2017 ADT = 26,100
2041 ADT = 29,300
RDS = 45 MPH

STRUCTURES DESIGN CONTACTS

BRIDGE OFFICE:
AARON BONK (608) 261-0261
CONSULTANT:
MOHAMMED ZAGLOUL (414) 751-7200

NO.	DATE	REVISION	BY

ORIGINAL PLANS PREPARED BY
kapur
7711 N. Port Washington Road
Milwaukee, Wisconsin 53217
kapurinc.com

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED _____ SDR 05/05/21
CHIEF STRUCTURES DESIGN ENGINEER DATE

WISCONSIN
ANDREW J. ASCHENBRENNER
E-45274
RACINE
WISCONSIN
4/30/2021
PROFESSIONAL ENGINEER

STRUCTURE B-40-504

STH 100 EB (BROWN DEER RD) OVER MILWAUKEE RIVER

COUNTY	VILLAGE
MILWAUKEE	RIVER HILLS

DESIGN SPEC.
REHABILITATION N/A

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
AJA	MHZ	MM	MHZ

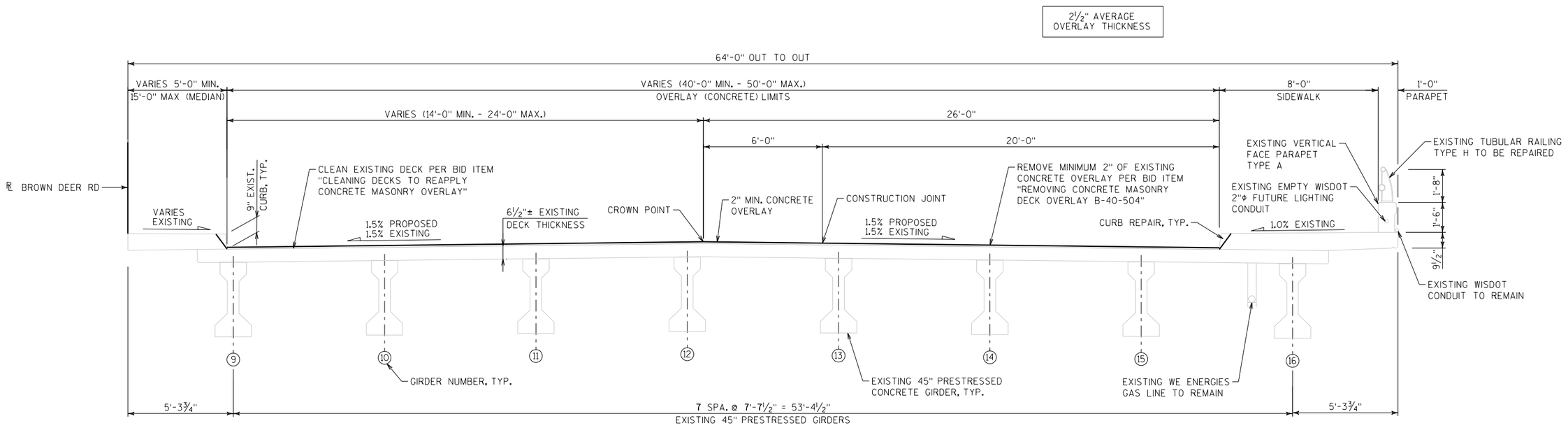
GENERAL PLAN & ELEVATION

SHEET 1 OF 9

7

FILE NAME : S:\DOT\DOT_SE\170330-ID2150-00-02_STH100\Structures\B-40-504\cds\B504_080101_gp.dgn
PLOT DATE : 4/30/2021
PLOT BY : aaschenbrenner
PLOT NAME : $FILE$
PLOT SCALE : 1:40.0033

STATE PROJECT NUMBER
2150-00-72



TYPICAL SECTION

(LOOKING EAST)
(DIMENSIONS AND CROSS SLOPES TAKEN FROM EXISTING STRUCTURE PLANS)

BENCH MARK DATA

BM NO.	DESCRIPTION	NORTHING	EASTING	ELEVATION
BM 219	STA. 491+36.61, 100.05'LT., NW CORNER OF W. BROWN DEER RD. AND N. DEERWOOD DR. INTERSECTION. BM HYD ENE BOLT	350643.00	591331.00	669.96
BM 220	STA. 507+79.06, 62.98'RT., SE CORNER OF W. BROWN DEER RD. AND N. KILDEER CT. INTERSECTION. BM TFSM SOUTH BOLT	350480.00	592979.00	657.58
CP 124	STA. 514+08.04, 63.63'LT., WEST END OF B-40-505 NORTH PARAPET. CP DISK STAMPED METROPOLITAN SEWER COMMISSION	350531.78	593613.63	662.26

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-504

DRAWN BY MM | PLANS CK'D. MHZ

TYPICAL SECTION

SHEET 2 OF 9

8

STATE PROJECT NUMBER
2150-00-72

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

ALL CONCRETE REMOVAL NOT COVERED WITH A CONCRETE OVERLAY SHALL BE DEFINED BY A 1 INCH DEEP SAW CUT.

BEVEL EXPOSED EDGES OF CONCRETE TO MATCH EXISTING BEVELS UNLESS OTHERWISE NOTED.

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), MILWAUKEE COUNTY ZONE, NAD 83 (2011).

ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED.

ALL STATIONS AND ELEVATIONS ARE IN FEET. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988, NAVD 88 (2011).

ANY EXCAVATION REQUIRED TO COMPLETE THE OVERLAY AT THE ABUTMENTS TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY OVERLAY DECKS".

THE UTILITY INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE.

"PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2" & "FULL-DEPTH DECK REPAIR" AREAS ARE BASED ON THE INSPECTION REPORTS, IR SCAN DATED SEPTEMBER 21, 2020 AND AS DETERMINED BY THE ENGINEER. DECK PREPARATION AND FULL-DEPTH DECK REPAIRS SHALL BE FILLED WITH "CONCRETE MASONRY OVERLAY DECKS".

PROFILE GRADE LINE SHALL BE DETERMINED IN THE FIELD BASED ON A MINIMUM OVERLAY THICKNESS OF 2" PLACED ABOVE THE DECK SURFACE AFTER SURFACE PREPARATION. EXPECTED AVERAGE OVERLAY THICKNESS IS 2½". IF EXPECTED AVERAGE OVERLAY THICKNESS IS EXCEEDED BY MORE THAN ½" CONTACT THE STRUCTURES DESIGN SECTION.

THE AVERAGE OVERLAY THICKNESS IS BASED ON THE MINIMUM OVERLAY THICKNESS PLUS ½-INCH TO ACCOUNT FOR VARIATIONS IN THE DECK SURFACE.

CLEAN AND FILL EXISTING LONGITUDINAL AND TRANSVERSE CRACKS WITH PENETRATING EPOXY AS DIRECTED BY THE FIELD ENGINEER.

AT "CURB REPAIR", EXPOSE EXISTING REINFORCEMENT A MINIMUM OF 1½" CLEAR.

"PIGMENTED SURFACE SEALER" SHALL BE APPLIED TO THE INSIDE FACES ONLY OF EXISTING PARAPETS. PERFORM "CLEANING PARAPETS" PRIOR TO THIS APPLICATION.

PROTECTIVE SURFACE TREATMENT SHALL BE APPLIED TO THE ENTIRE TOP SURFACE OF THE NEW CONCRETE OVERLAY.

"PROTECTIVE SURFACE TREATMENT RESEAL" SHALL BE APPLIED TO THE TOP OF EXISTING SIDEWALK, VERTICAL FACE OF EXISTING SIDEWALK, TOP OF EXISTING MEDIAN, AND THE VERTICAL FACE OF EXISTING MEDIAN.

"TUBULAR RAILING REPAIR TYPE 1" SHALL BE THE REPAIR OF THE TUBULAR RAILING ONLY. THE EXISTING POST IS TO REMAIN.

"TUBULAR RAILING REPAIR TYPE 2" SHALL BE THE REPAIR OF THE TUBULAR RAILING AND POST. THE EXISTING POST ANCHORS ARE TO REMAIN AND NOT BE REPLACED.

"TUBULAR RAILING REPAIR TYPE 3" SHALL BE THE REPAIR OF THE TUBULAR RAILING. THE RAILING POST AND ANCHORS ARE TO BE REPLACED AT THE PARTIAL PARAPET REPLACEMENT LOCATION.

A MINIMUM OF 2" OF CONCRETE SHALL BE REMOVED FROM THE EXISTING CONCRETE OVERLAY UNDER THE BID ITEM "REMOVING CONCRETE MASONRY DECK OVERLAY B-40-504".

SEAL OVERLAY CONSTRUCTION JOINTS ACCORDING TO SECTION 502.3.13.1 OF THE STANDARD SPECIFICATIONS. COST INCIDENTAL TO BID ITEM "CONCRETE MASONRY OVERLAY DECKS".

REMOVE ANY/ALL LOOSE CONCRETE UNDER BID ITEM "CONCRETE SURFACE REPAIR". SURFACES SHALL BE BLAST CLEANED AND ANY EXPOSED STEEL SHALL BE BRUSHED CLEANED PRIOR TO THE CONCRETE SURFACE REPAIRS BEING COMPLETED. REPAIR AREAS SHALL BE VERIFIED AND APPROVED BY THE FIELD ENGINEER.

CONCRETE SURFACE REPAIRS SHALL INCLUDE THE MEDIAN AND SIDEWALK REPAIRS AS SHOWN ON THE "DECK REHABILITATION AREAS" SHEET.

EXISTING WISDOT 2" DIAMETER CONDUIT IN THE SOUTH PARAPET IS EMPTY. THE CONDUIT IS TO BE REPLACED IN THE PARAPET REPAIR SECTION AND SHALL BE INCIDENTAL TO BID ITEM "TUBULAR RAILING REPAIR TYPE 3".

LOCATIONS OF THE FOLLOWING BID ITEMS SHALL BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER, QUANTITIES SHOWN FOR THESE BID ITEMS ARE APPROXIMATE:
-CRACK SEALING EPOXY
-PREPARATION DECKS TYPE 1
-PREPARATION DECKS TYPE 2
-CURB REPAIR
-CONCRETE SURFACE REPAIR
-FULL DEPTH DECK REPAIR
-TUBULAR RAILING REPAIR TYPE 1
-TUBULAR RAILING REPAIR TYPE 2

TOTAL ESTIMATED QUANTITIES

ITEM NO.	BID ITEMS	UNIT	WEST ABUTMENT	PIER 1	PIER 2	EAST ABUTMENT	SUPER.	TOTAL
502.0100	CONCRETE MASONRY BRIDGES	CY	-	-	-	-	1	1
502.0717.S	CRACK SEALING EPOXY	LF	-	-	-	-	30	30
502.3200	PROTECTIVE SURFACE TREATMENT	SY	-	-	-	-	1,240	1,240
502.3210	PIGMENTED SURFACE SEALER	SY	-	-	-	-	43	43
502.3215.S	PROTECTIVE SURFACE TREATMENT RESEAL	SY	-	-	-	-	593	593
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	-	-	-	-	50	50
509.0301	PREPARATION DECKS TYPE 1	SY	-	-	-	-	751	751
509.0302	PREPARATION DECKS TYPE 2	SY	-	-	-	-	563	563
509.0505.S	CLEANING DECKS TO REAPPLY CONCRETE MASONRY OVERLAY	SY	-	-	-	-	1,240	1,240
509.1200	CURB REPAIR	LF	-	-	-	-	30	30
509.1500	CONCRETE SURFACE REPAIR	SF	10	-	5	10	1,155	1,180
509.2000	FULL-DEPTH DECK REPAIR	SY	-	-	-	-	1	1
509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	-	-	-	-	148	148
509.9005.S.30	REMOVING CONCRETE MASONRY DECK OVERLAY B-40-504	SY	-	-	-	-	1,240	1,240
509.9050.S	CLEANING PARAPETS	LF	-	-	-	-	256	256
SPV.0060.30	TUBULAR RAILING REPAIR TYPE 1	EACH	-	-	-	-	2	2
SPV.0060.31	TUBULAR RAILING REPAIR TYPE 2	EACH	-	-	-	-	1	1
SPV.0060.32	TUBULAR RAILING REPAIR TYPE 3	EACH	-	-	-	-	1	1
SPV.0165.30	PPC BEAM SURFACE REPAIR	SF	-	-	-	-	5	5

ALL ITEMS ARE CATEGORY 0020

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-504

DRAWN BY MM | PLANS CK'D. MHZ

GENERAL NOTES & QUANTITIES

SHEET 3 OF 9

9

FILE NAME : S:\DOT\DOT_SE\170330-ID2150-00-02_STH100\Structures\B-40-504\cds\B504_080202_gn.dgn

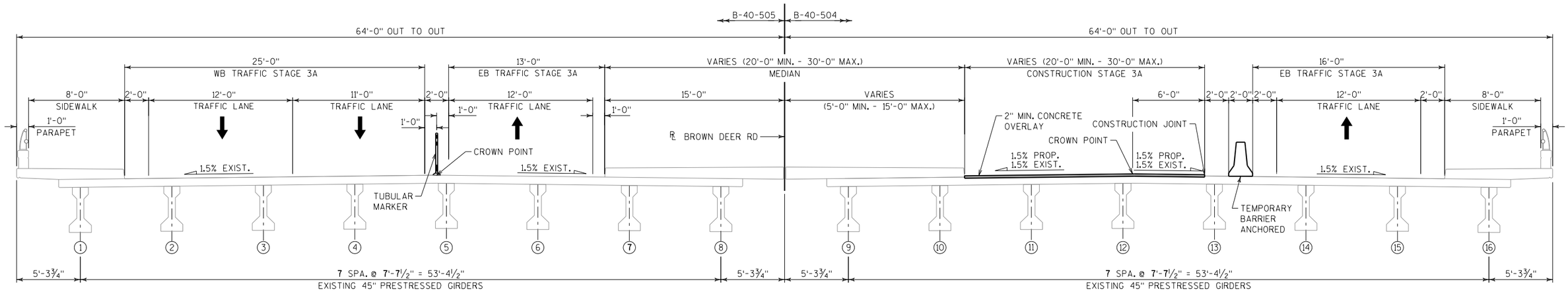
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PLOT BY : aaschenbrenner

PLOT NAME : $FILE$

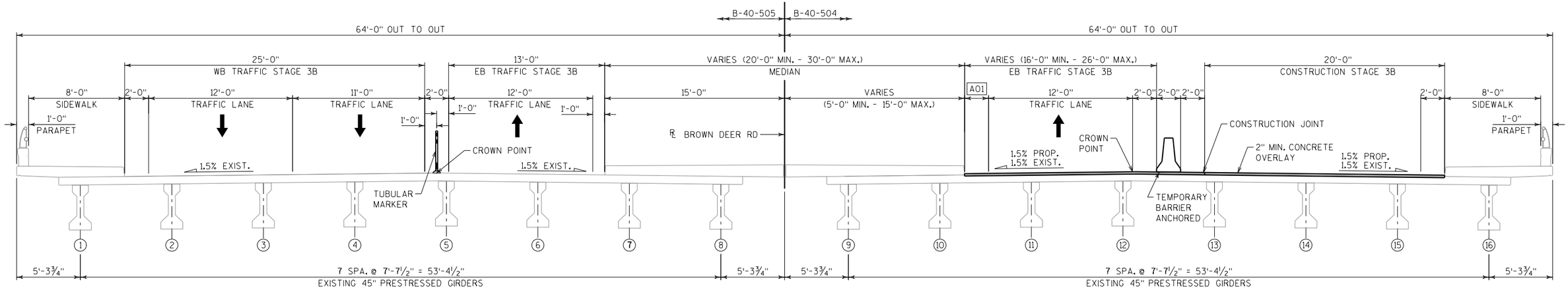
PLOT SCALE : 1:8

STATE PROJECT NUMBER
2150-00-72



CONSTRUCTION STAGE 3A

(LOOKING EAST)
(DIMENSIONS AND CROSS SLOPES TAKEN FROM EXISTING STRUCTURE PLANS)



CONSTRUCTION STAGE 3B

(LOOKING EAST)
(DIMENSIONS AND CROSS SLOPES TAKEN FROM EXISTING STRUCTURE PLANS)

8

8

LEGEND

- A01 DIMENSION VARIES (2'-0" MIN. - 12'-0" MAX.)
- ➡ DIRECTION OF TRAFFIC
- (X) GIRDER NUMBER

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-504

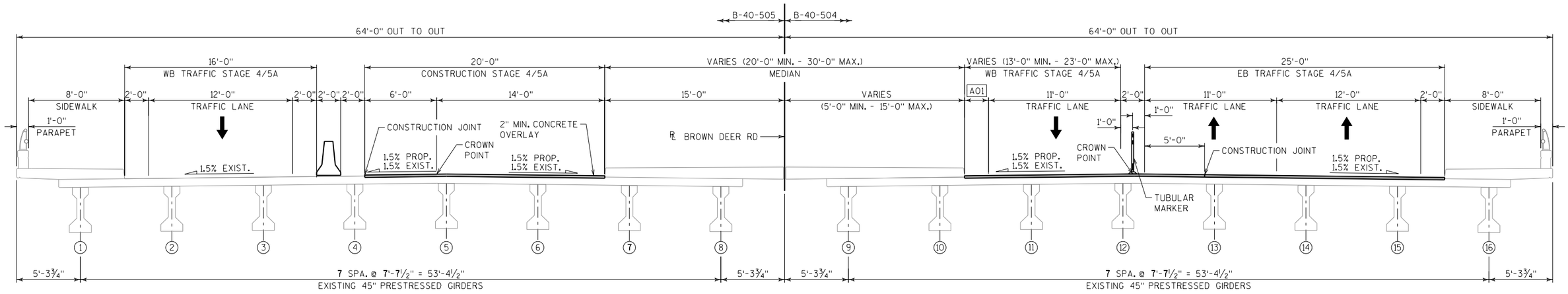
DRAWN BY	MM	PLANS CK'D.	MHZ

CONSTRUCTION STAGING (1 OF 2)

SHEET 4 OF 9

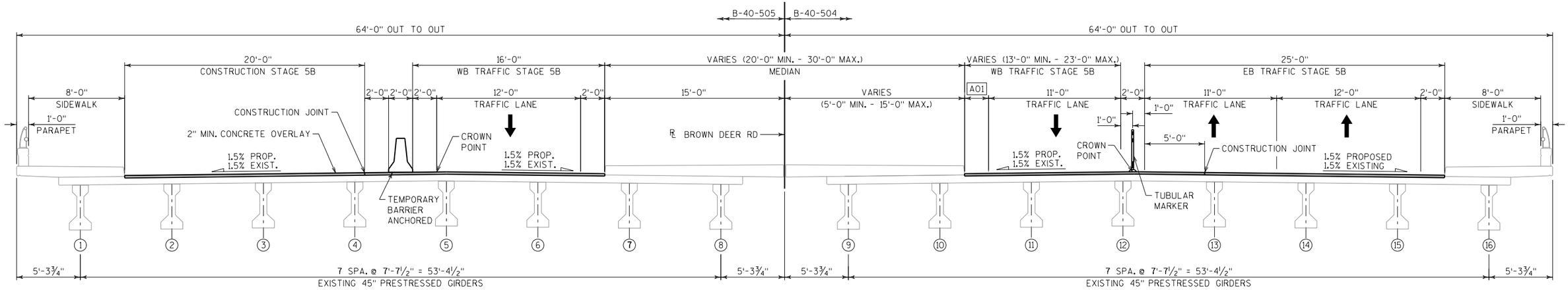
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PLOT DATE : 4/30/2021
PLOT BY : aaschenbrenner
PLOT NAME : $FILE$
PLOT SCALE : 1:8.33333

STATE PROJECT NUMBER
2150-00-72



CONSTRUCTION STAGE 4/5A

(LOOKING EAST)
(DIMENSIONS AND CROSS SLOPES TAKEN FROM EXISTING STRUCTURE PLANS)



CONSTRUCTION STAGE 5B

(LOOKING EAST)
(DIMENSIONS AND CROSS SLOPES TAKEN FROM EXISTING STRUCTURE PLANS)

8

8

LEGEND

- A01 DIMENSION VARIES (2'-0" MIN. - 12'-0" MAX.)
- ➡ DIRECTION OF TRAFFIC
- (X) GIRDER NUMBER

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-504

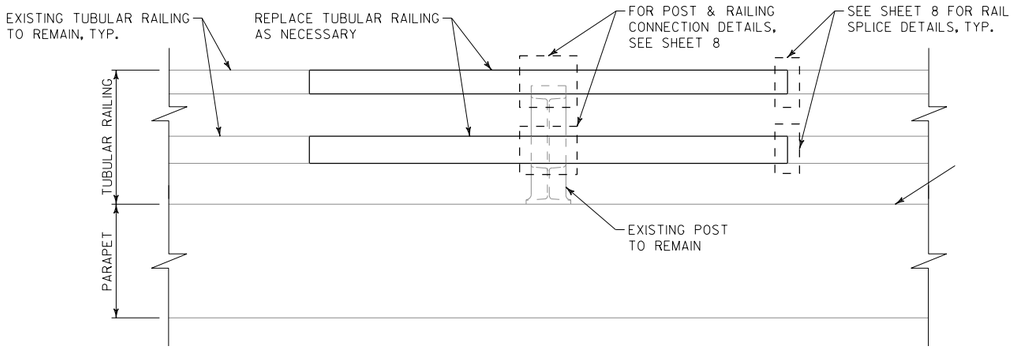
DRAWN BY	MM	PLANS CK'D.	MHZ

CONSTRUCTION STAGING (2 OF 2)

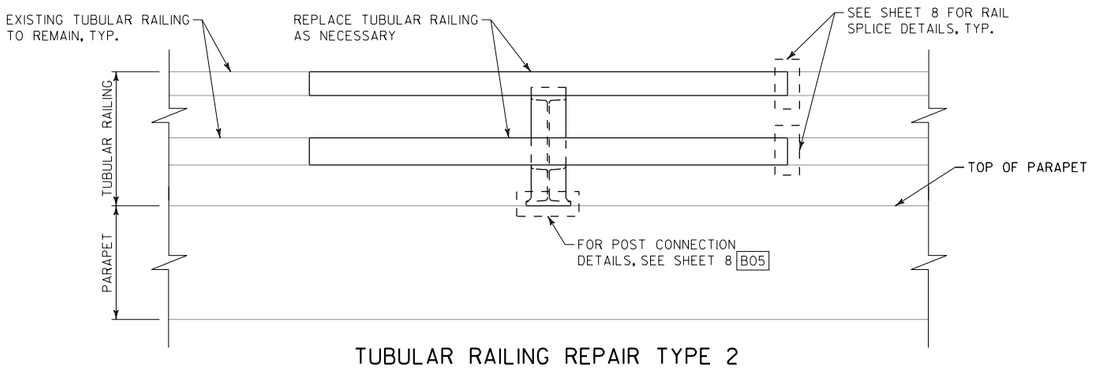
SHEET 5 OF 9

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PLOT BY : aaschenbrenner
PLOT NAME : $FILE$
PLOT SCALE : 1:8.33333

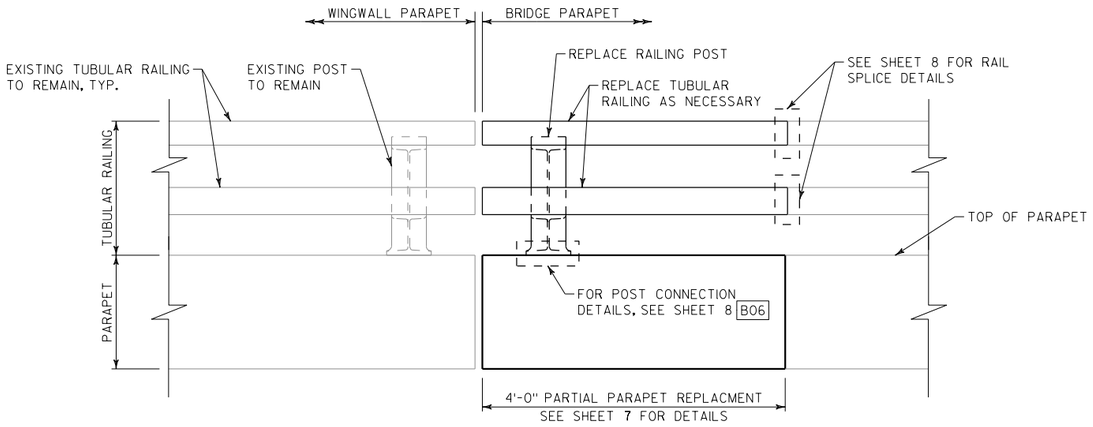
STATE PROJECT NUMBER
2150-00-72



TUBULAR RAILING REPAIR TYPE 1

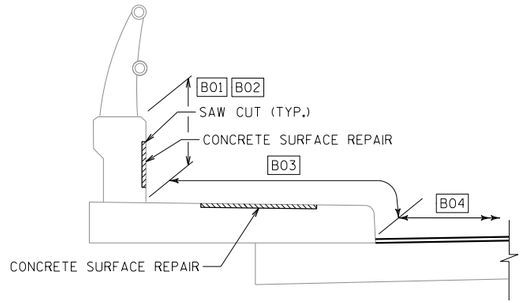


TUBULAR RAILING REPAIR TYPE 2

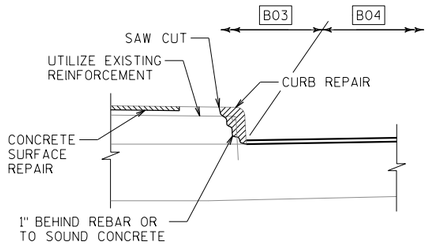


TUBULAR RAILING REPAIR TYPE 3

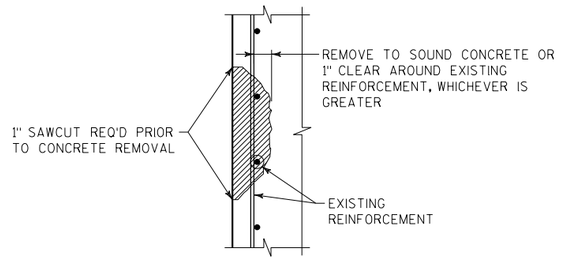
(LOOKING SOUTH)



PARAPET REPAIR DETAIL

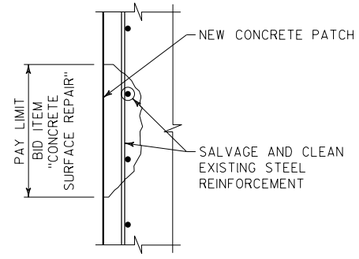


CURB REPAIR DETAIL



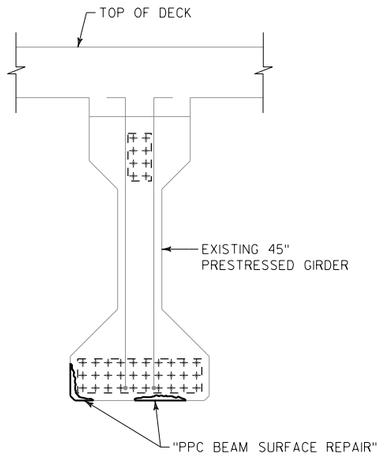
TYPICAL CONCRETE SURFACE REMOVAL DETAIL

(FOR ABUTMENTS AND PIER)



TYPICAL CONCRETE SURFACE REPAIR DETAIL

(FOR ABUTMENTS AND PIER)



PPC BEAM SURFACE REPAIR DETAIL

(GIRDER 16 ONLY)

NOTES

FOR TUBULAR RAILING TYPE 'H' DETAILS, SEE SHEET 8.

FOR PARAPET & REINFORCEMENT DETAILS, SEE SHEET 7.

SEE GENERAL PLAN & ELEVATION FOR "PPC BEAM SURFACE REPAIR" LOCATION.

LEGEND

B01 "CLEANING PARAPETS" LIMITS

B02 "PIGMENTED SURFACE SEALER" LIMITS

B03 "PROTECTIVE SURFACE TREATMENT RESEAL" LIMITS

B04 "PROTECTIVE SURFACE TREATMENT" LIMITS

B05 EXISTING POST ANCHORS ARE TO REMAIN

B06 POST ANCHORS TO BE REPLACED

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-504

DRAWN BY MM | PLANS CK'D. MHZ

REHABILITATION DETAILS

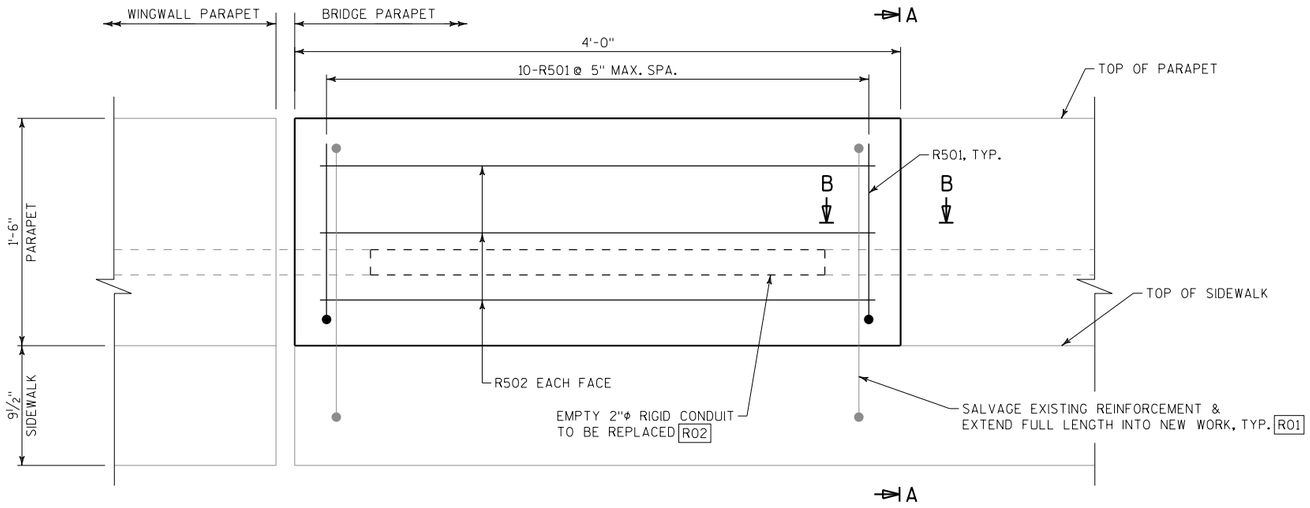
SHEET 6 OF 9

8

8

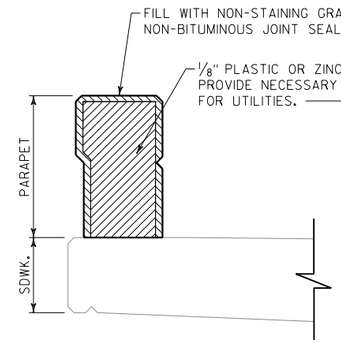
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STATE PROJECT NUMBER
2150-00-72



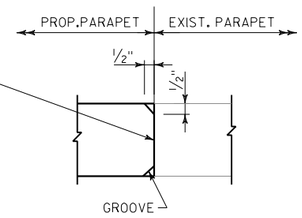
PARTIAL PARAPET INSIDE ELEVATION

(LOOKING SOUTH)
(TUBULAR RAILING NOT SHOWN FOR CLARITY)

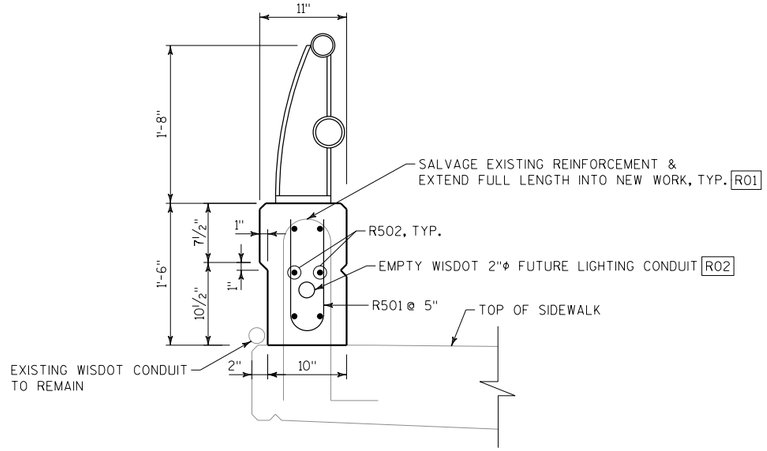


SECTION A-A

(TUBULAR RAILING NOT SHOWN FOR CLARITY)



SECTION B-B

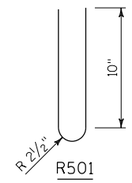


SECTION THRU PARAPET

(LOOKING WEST)

BILL OF BARS

BAR MARK	COAT	NO REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
R501	X	10	2'-5"	X	-	PARAPET - VERT.
R502	X	6	3'-8"	-	-	PARAPET - LONG.



BENDING DIAGRAM

LEGEND

R01 CARE IS TO BE USED IN REMOVING THE EXISTING CONCRETE PARAPET TO SALVAGE THE EXISTING REINFORCEMENT.

R02 REPLACE THE EMPTY 2"Φ RIGID CONDUIT IN THE REPAIRED SECTION OF THE PARAPET. COST IS INCIDENTAL TO BID ITEM "TUBULAR RAILING REPAIR TYPE 3".

NOTES

FOR TUBULAR RAILING TYPE 'H' DETAILS, SEE SHEET 8.

SEE GENERAL PLAN & ELEVATION SHEET FOR PARTIAL PARAPET REPLACEMENT LOCATION.

PARAPET DIMENSIONS ARE TAKEN FROM THE ORIGINAL STRUCTURE PLANS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-504

DRAWN BY MM | PLANS CK'D. MHZ

VERTICAL FACE PARAPET 'A' MODIFIED

SHEET 7 OF 9

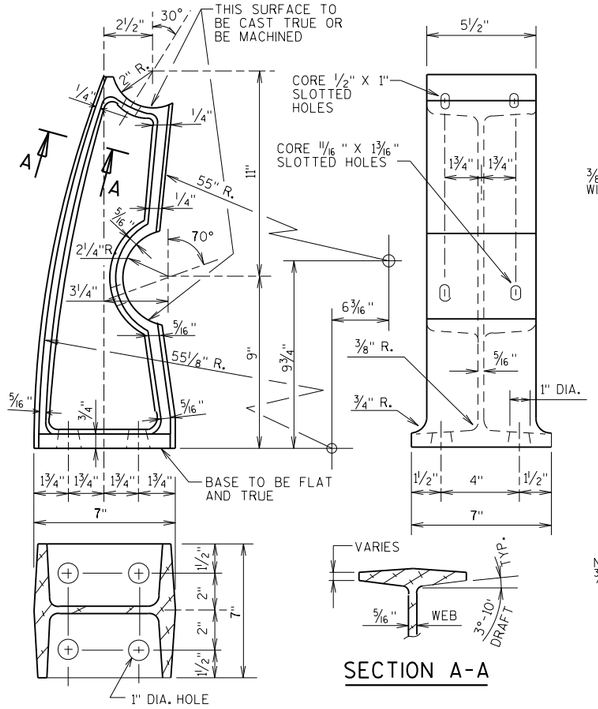
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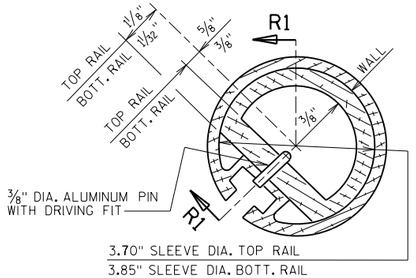
STATE PROJECT NUMBER

2150-00-72

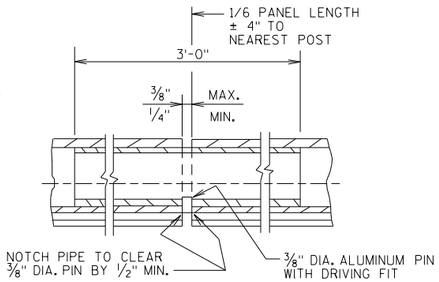


ALUMINUM POST CASTING

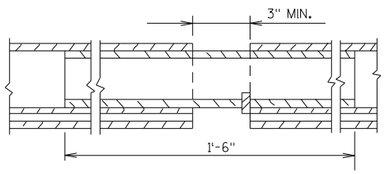
SECTION A-A



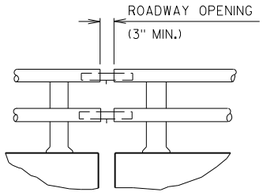
RAIL SPLICE DETAIL



SECTION R1

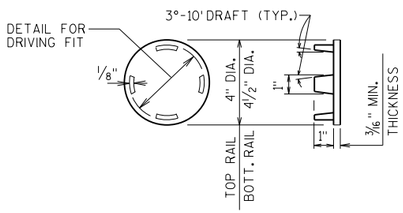


SLEEVE DETAIL AT ABUTMENT

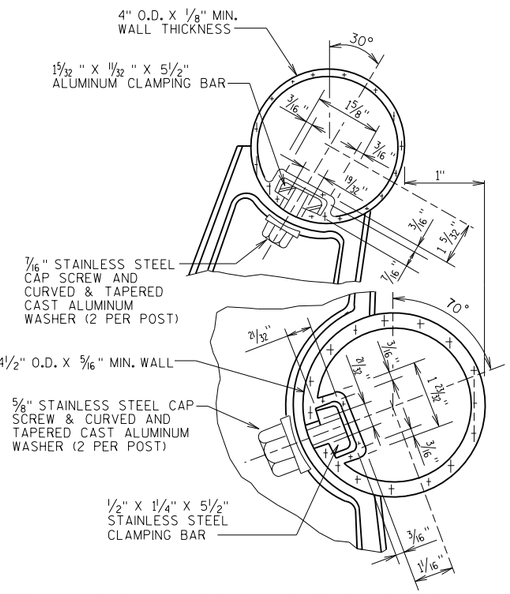


DETAIL AT RAIL OPENINGS

ALL SLEEVE DETAILS SAME AS "RAIL SPLICE DETAIL" UNLESS SHOWN OTHERWISE

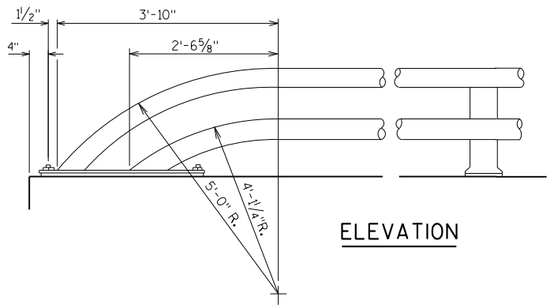


RAIL CLOSURE CAP DETAIL

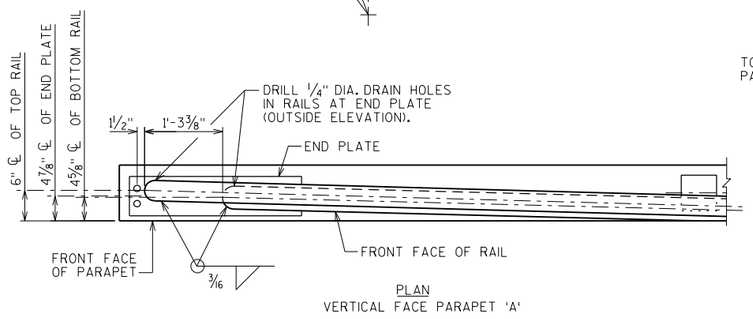


DETAIL OF RAIL ATTACHMENT TO POST

NOTES: MAX. REDUCTION IN DIAMETER OF BENT SECTION SHALL BE 3%. WALL THICKNESS OF TUBING SHOWN ABOVE SHALL BE MIN. NOMINAL AVERAGE WALL THICKNESS. MAX. REDUCTION IN SLOT WIDTH IN BENT TUBING SHALL BE 3/16".

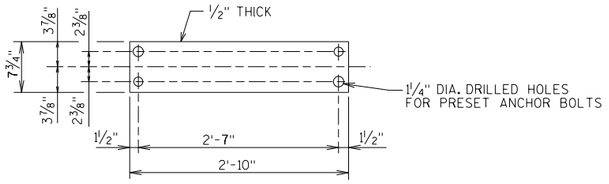


ELEVATION

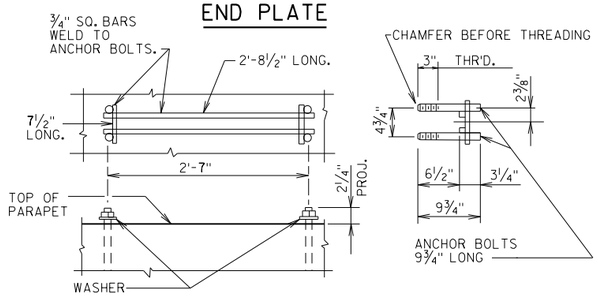


PLAN
VERTICAL FACE PARAPET 'A'

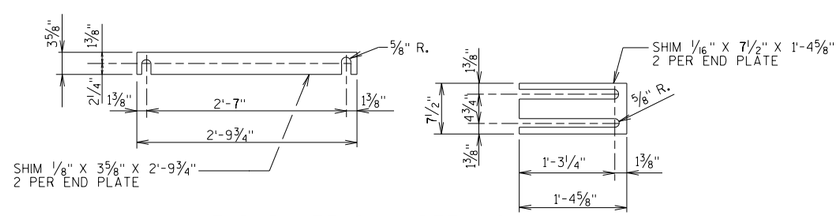
DETAIL OF RAIL BEND AT ABUTMENTS



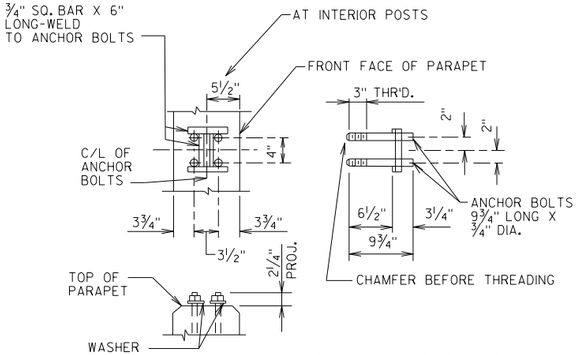
END PLATE



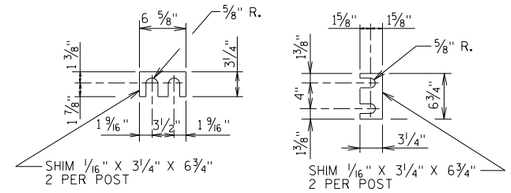
ANCHOR BOLTS AT END PLATE



END PLATE SHIM DETAILS



ANCHOR BOLTS AT POSTS



POST SHIM DETAILS

NOTES

BID ITEMS SHALL BE "TUBULAR RAILING REPAIR TYPE 1", "TUBULAR RAILING REPAIR TYPE 2" OR "TUBULAR RAILING REPAIR TYPE 3" WHICH INCLUDES ALL ITEMS SHOWN.

ANCHOR BOLTS, NUTS AND WASHERS SHALL BE STAINLESS STEEL.

SHIMS SHALL CONFORM TO SAME MATERIAL AS POSTS.

RAILING POSTS SHALL BE SET NORMAL TO GRADE LINE.

SHIMS SHALL BE USED UNDER POSTS AND END PLATES WHERE REQ'D. FOR ALIGNMENT.

FILL ALL EXPOSED OPENINGS BETWEEN SHIMS AND POST ANCHOR BOLT HOLES WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.

RAILS SHALL BE BUILT STRAIGHT AND SPRUNG INTO PLACE FOR STRUCTURES CURVED UP TO 3°. FOR STRUCTURES CURVED GREATER THAN 3°, RAILS SHALL BE CURVED TO FIT.

TYPE 'H' (STEEL) RAILING SHALL NOT BE USED.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-504

DRAWN BY MM | PLANS CK'D. MHZ

TUBULAR RAILING TYPE 'H' (ALUM.)

SHEET 8 OF 9

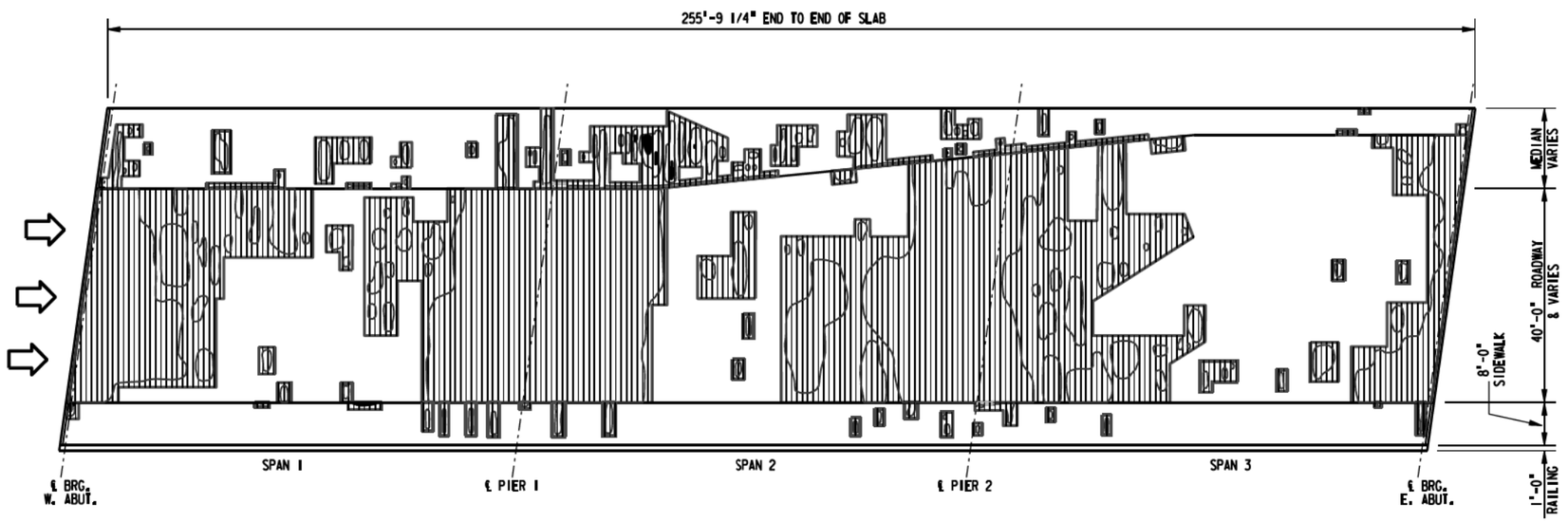
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PLOT DATE : 4/30/2021
PLOT BY : aschenbrenner
PLOT NAME : $FILE$
PLOT SCALE : 1:8

STATE PROJECT NUMBER

2150-00-72



PLAN

PROPOSED REHABILITATION AREAS

N

STRUCTURE NO. B-40-504

REHABILITATION AREA SUMMARY		ROADWAY		SIDEWALK		MEDIAN	
ITEM	UNIT	QUANT.	%	QUANT.	%	QUANT.	%
TOTAL AREA	yd^2	1249.7		227.3		313.6	
SHADE/DEBRIS	yd^2	0		0		0	
PREPARATION, DECKS, TYPE 1	yd^2	751.1	60.1	19.0	8.4	95.9	30.6
PREPARATION, DECKS, TYPE 2	yd^2	563.3	45.1	1.9	0.8	9.6	3.1
FULL DEPTH DECK REPAIR	yd^2	1.0	0.1	0	0	0	0

LEGEND

DECK PREPARATION AREA

SHADE/DEBRIS

DELAMINATION

SPALL

DEBOND

ASPHALT PATCH

CONCRETE PATCH

SCALE 0' 5' 10' 20'

SURFACE TYPE: PCC OVERLAY

INFRARED INSPECTION DATE: 9/21/20

DATA COL TT/DD
ANALYSIS TC
CADD TC
CHECKED DJ
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NO. | DATE | REVISION | BY

AECOM

PROPOSED REHABILITATION AREAS FOR STH 100 EB - BROWN DEER ROAD OVER MILWAUKEE RIVER STRUCTURE NO. B-40-504

PREPARED FOR WISCONSIN DEPARTMENT OF TRANSPORTATION SOUTHEAST REGION

DATE 9/26/20
PROJECT NO 60630160
FILENAME B-40-504-REHAB.DGN
SHEET NO 1 OF 1
DRAWING NO

NOTE

REHABILITATION AREAS SHOWN ON THIS SHEET ARE FOR INFORMATION ONLY. THE FIELD ENGINEER WILL SOUND THE DECK AND MARK AREAS IN THE FIELD. THE ESTIMATED QUANTITIES FOR THE DECK PREPARATION AND DECK REPAIR BID ITEMS ARE ADAPTED FROM THE ABOVE INFRARED THERMOGRAPHY SURVEY RESULTS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-504

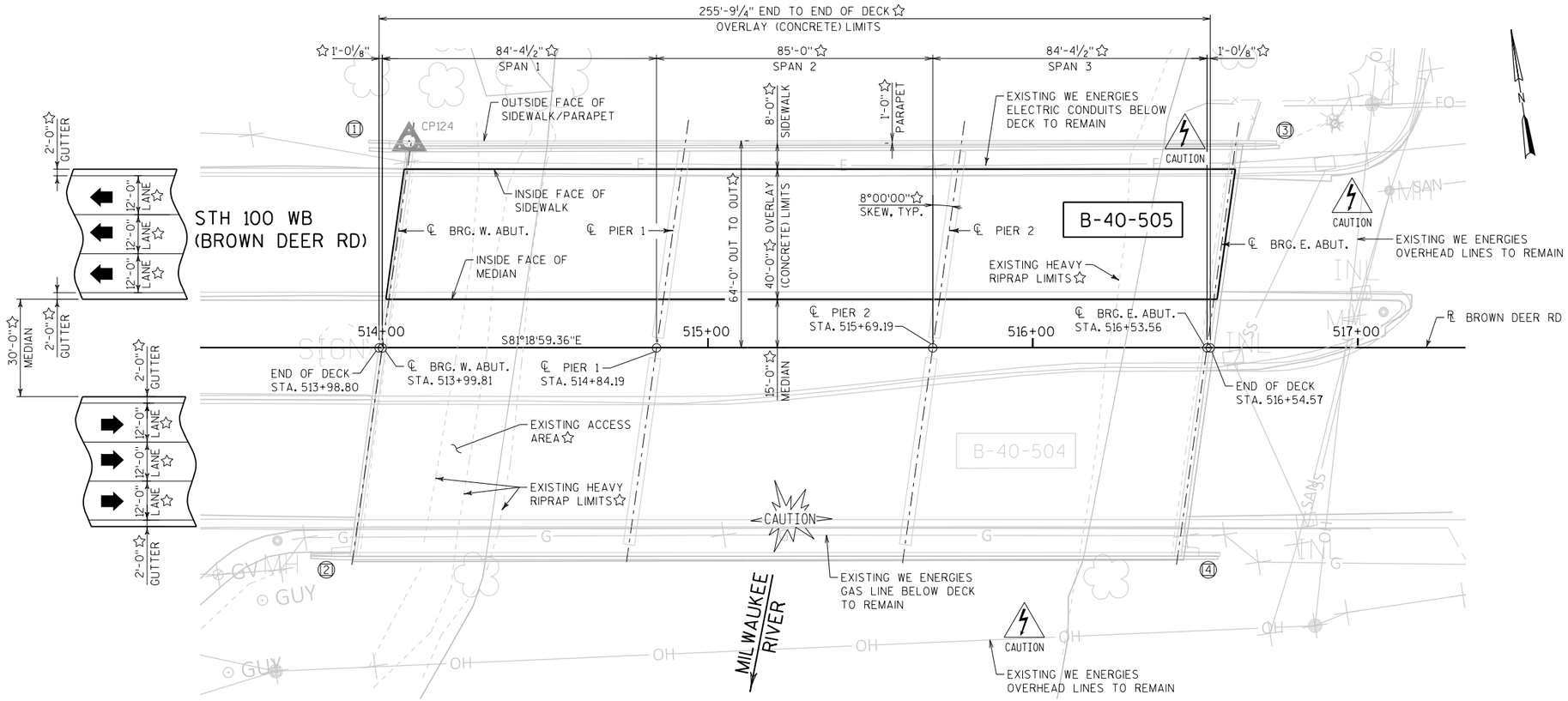
DRAWN BY MM | PLANS CK'D. MHZ

DECK REHABILITATION AREAS

SHEET 9 OF 9

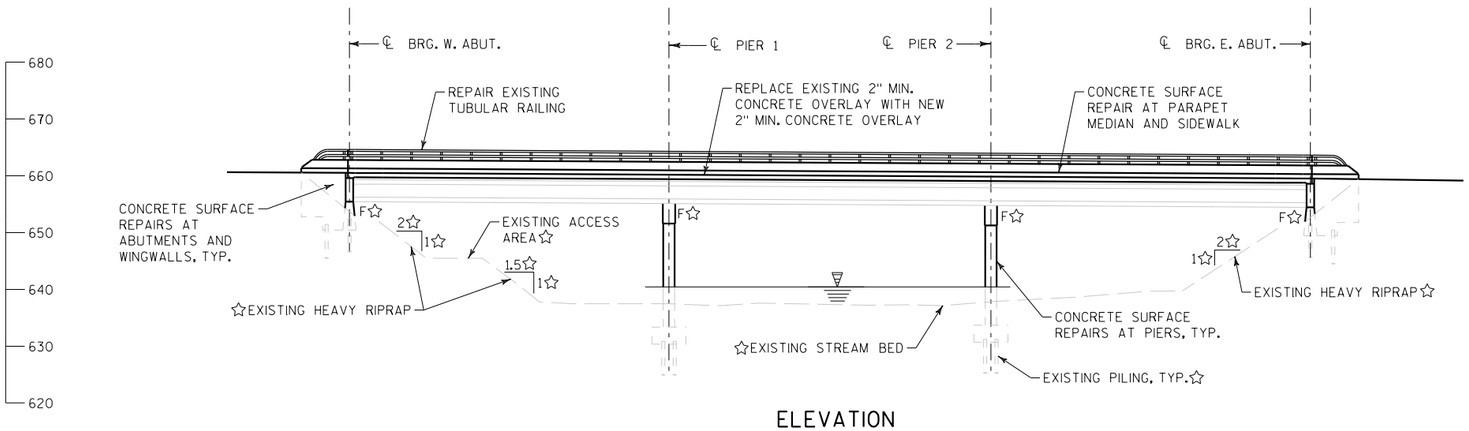
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STATE PROJECT NUMBER
2150-00-72



PLAN

3-SPAN 45" PRESTRESSED GIRDERS
(CONCRETE OVERLAY)



ELEVATION

(LOOKING NORTH)

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HS20
INVENTORY RATING: HS16
OPERATING RATING: HS27
WISCONSIN STANDARD PERMIT (WIS-SPV): 210 KIPS

MATERIAL PROPERTIES:

CONCRETE MASONRY..... f'c = 4,000 PSI

LEGEND

➡ DIRECTION OF TRAFFIC

☆ TAKEN FROM ORIGINAL STRUCTURE PLANS DATED MAY 1, 1978

Ⓧ EXISTING WINGWALL NUMBER

LIST OF DRAWINGS

1. GENERAL PLAN & ELEVATION
2. TYPICAL SECTION
3. GENERAL NOTES & QUANTITIES
4. CONSTRUCTION STAGING (1 OF 2)
5. CONSTRUCTION STAGING (2 OF 2)
6. REHABILITATION DETAILS
7. TUBULAR RAILING TYPE 'H' (ALUM.)
8. DECK REHABILITATION AREAS

TRAFFIC DATA

STH 100

2017 ADT = 26,100
2041 ADT = 29,300
RDS = 45 MPH

STRUCTURES DESIGN CONTACTS

BRIDGE OFFICE:
AARON BONK (608) 261-0261
CONSULTANT:
MOHAMMED ZAGLOUL (414) 751-7200

NO.	DATE	REVISION	BY

ORIGINAL PLANS PREPARED BY
kapur
7711 N. Port Washington Road
Milwaukee, Wisconsin 53217
kapurinc.com

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED SDR 05/05/21
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-40-505

STH 100 WB (BROWN DEER RD) OVER MILWAUKEE RIVER

COUNTY	VILLAGE
MILWAUKEE	RIVER HILLS

DESIGN SPEC. REHABILITATION N/A

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
AJA	MHZ	MM	MHZ

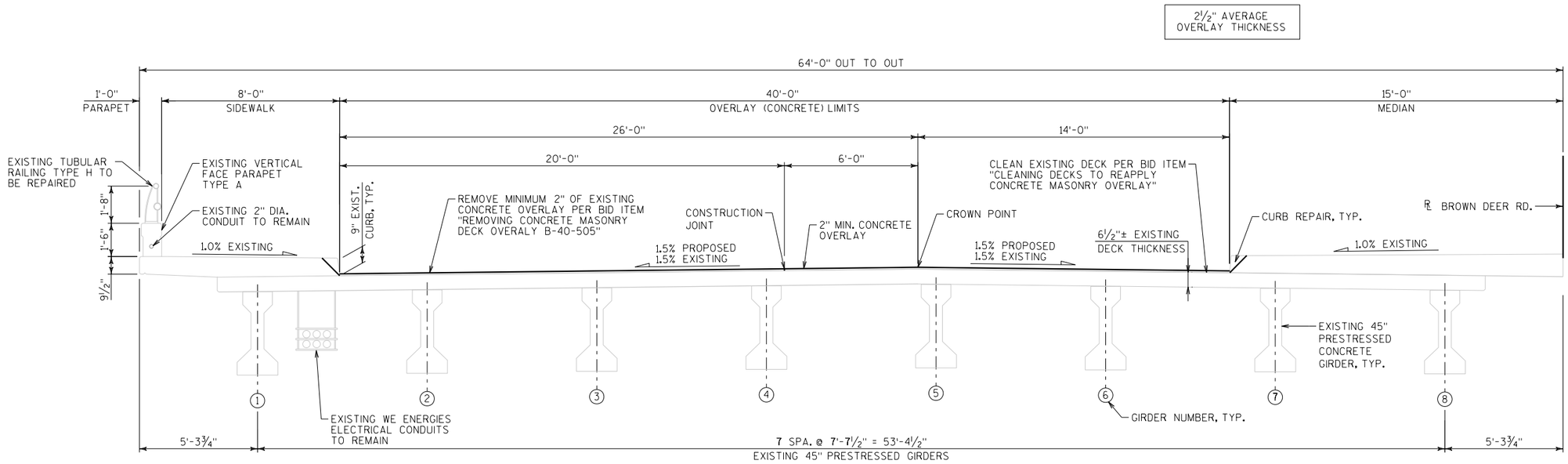
GENERAL PLAN & ELEVATION

SHEET 1 OF 8

WISCONSIN
ANDREW J. ASCHENBRENNER
E-45272-6
RANGE
WISCONSIN
4/29/2021
PROFESSIONAL ENGINEER
Andrew Aschenbrenner

FILE NAME : S:\DOT\DOT_SE\170330-ID2150-00-02_STH100\Structures\B-40-505\cds\B505_080101_gp.dgn
PLOT DATE : 4/29/2021
PLOT BY : aaschenbrenner
PLOT NAME : $FILE$
PLOT SCALE : 1:40.0033

STATE PROJECT NUMBER
2150-00-72



TYPICAL SECTION

(LOOKING EAST)
(DIMENSIONS AND CROSS SLOPES TAKEN FROM EXISTING STRUCTURE PLANS)

BENCH MARK DATA

BM NO.	DESCRIPTION	NORTHING	EASTING	ELEVATION
BM 219	STA. 491+36.61, 100.05'LT., NW CORNER OF W. BROWN DEER RD. AND N. DEERWOOD DR. INTERSECTION. BM HYD ENE BOLT	350643.00	591331.00	669.96
BM 220	STA. 507+79.06, 62.98'RT., SE CORNER OF W. BROWN DEER RD. AND N. KILDEER CT. INTERSECTION. BM TFSM SOUTH BOLT	350480.00	592979.00	657.58
CP 124	STA. 514+08.04, 63.63'LT., WEST END OF B-40-505 NORTH PARAPET. CP DISK STAMPED METROPOLITAN SEWER COMMISSION	350531.78	593613.63	662.26

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-505

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TYPICAL SECTION

SHEET 2 OF 8

FILE NAME : S:\DOT\DOT_SE\170330-ID2150-00-02_STH100\Structures\B-40-505\cds\B505_080201_ts.dgn
PLOT DATE : 4/29/2021
PLOT BY : aaschenbrenner
PLOT NAME : $FILE$
PLOT SCALE : 1:8

STATE PROJECT NUMBER

2150-00-72

TOTAL ESTIMATED QUANTITIES

ITEM NO.	BID ITEMS	UNIT	WEST ABUTMENT	PIER 1	PIER 2	EAST ABUTMENT	SUPER.	TOTAL
502.0717.S	CRACK SEALING EPOXY	LF	-	-	-	-	30	30
502.3200	PROTECTIVE SURFACE TREATMENT	SY	-	-	-	-	1,137	1,137
502.3210	PIGMENTED SURFACE SEALER	SY	-	-	-	-	43	43
502.3215.S	PROTECTIVE SURFACE TREATMENT RESEAL	SY	-	-	-	-	695	695
509.0301	PREPARATION DECKS TYPE 1	SY	-	-	-	-	522	522
509.0302	PREPARATION DECKS TYPE 2	SY	-	-	-	-	392	392
509.0505.S	CLEANING DECKS TO REAPPLY CONCRETE MASONRY OVERLAY	SY	-	-	-	-	1,137	1,137
509.1200	CURB REPAIR	LF	-	-	-	-	30	30
509.1500	CONCRETE SURFACE REPAIR	SF	10	5	-	10	1,140	1,165
509.2000	FULL-DEPTH DECK REPAIR	SY	-	-	-	-	1	1
509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	-	-	-	-	123	123
509.9005.S.31	REMOVING CONCRETE MASONRY DECK OVERLAY B-40-505	SY	-	-	-	-	1,137	1,137
509.9050.S	CLEANING PARAPETS	LF	-	-	-	-	256	256
SPV.0060.30	TUBULAR RAILING REPAIR TYPE 1	EACH	-	-	-	-	1	1
SPV.0060.31	TUBULAR RAILING REPAIR TYPE 2	EACH	-	-	-	-	2	2

ALL ITEMS ARE CATEGORY 0010

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

ALL CONCRETE REMOVAL NOT COVERED WITH A CONCRETE OVERLAY SHALL BE DEFINED BY A 1 INCH DEEP SAW CUT.

BEVEL EXPOSED EDGES OF CONCRETE TO MATCH EXISTING BEVELS UNLESS OTHERWISE NOTED.

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), MILWAUKEE COUNTY ZONE, NAD 83 (2011).

ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED.

ALL STATIONS AND ELEVATIONS ARE IN FEET. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988, NAVD 88 (2011).

ANY EXCAVATION REQUIRED TO COMPLETE THE OVERLAY AT THE ABUTMENTS TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY OVERLAY DECKS".

THE UTILITY INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE.

"PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2" & "FULL-DEPTH DECK REPAIR" AREAS ARE BASED ON THE INSPECTION REPORTS, IR SCAN DATED SEPTEMBER 21, 2020 AND AS DETERMINED BY THE ENGINEER. DECK PREPARATION AND FULL-DEPTH DECK REPAIRS SHALL BE FILLED WITH "CONCRETE MASONRY OVERLAY DECKS".

PROFILE GRADE LINE SHALL BE DETERMINED IN THE FIELD BASED ON A MINIMUM OVERLAY THICKNESS OF 2" PLACED ABOVE THE DECK SURFACE AFTER SURFACE PREPARATION. EXPECTED AVERAGE OVERLAY THICKNESS IS 2½". IF EXPECTED AVERAGE OVERLAY THICKNESS IS EXCEEDED BY MORE THAN ½" CONTACT THE STRUCTURES DESIGN SECTION.

THE AVERAGE OVERLAY THICKNESS IS BASED ON THE MINIMUM OVERLAY THICKNESS PLUS ½-INCH TO ACCOUNT FOR VARIATIONS IN THE DECK SURFACE.

CLEAN AND FILL EXISTING LONGITUDINAL AND TRANSVERSE CRACKS WITH PENETRATING EPOXY AS DIRECTED BY THE FIELD ENGINEER.

AT "CURB REPAIR", EXPOSE EXISTING REINFORCEMENT A MINIMUM OF 1½" CLEAR.

"PIGMENTED SURFACE SEALER" SHALL BE APPLIED TO THE INSIDE FACES ONLY OF EXISTING PARAPETS. PERFORM "CLEANING PARAPETS" PRIOR TO THIS APPLICATION.

PROTECTIVE SURFACE TREATMENT SHALL BE APPLIED TO THE ENTIRE TOP SURFACE OF THE NEW CONCRETE OVERLAY.

"PROTECTIVE SURFACE TREATMENT RESEAL" SHALL BE APPLIED TO THE TOP OF EXISTING SIDEWALK, VERTICAL FACE OF EXISTING SIDEWALK, TOP OF EXISTING MEDIAN, AND THE VERTICAL FACE OF EXISTING MEDIAN.

"TUBULAR RAILING REPAIR TYPE 1" SHALL BE THE REPAIR THE TUBULAR RAILING ONLY. THE EXISTING POST IS TO REMAIN.

"TUBULAR RAILING REPAIR TYPE 2" SHALL BE THE REPAIR OF THE TUBULAR RAILING AND POST. THE EXISTING POST ANCHORS ARE TO REMAIN AND NOT BE REPLACED.

A MINIMUM OF 2" OF CONCRETE SHALL BE REMOVED FROM THE EXISTING CONCRETE OVERLAY UNDER THE BID ITEM "REMOVING CONCRETE MASONRY DECK OVERLAY B-40-505".

SEAL OVERLAY CONSTRUCTION JOINTS ACCORDING TO SECTION 502.3.13.1 OF THE STANDARD SPECIFICATIONS. COST INCIDENTAL TO BID ITEM "CONCRETE MASONRY OVERLAY DECKS".

REMOVE ANY/ALL LOOSE CONCRETE UNDER BID ITEM "CONCRETE SURFACE REPAIR". SURFACES SHALL BE BLAST CLEANED AND ANY EXPOSED STEEL SHALL BE BRUSHED CLEANED PRIOR TO THE CONCRETE SURFACE REPAIRS BEING COMPLETED. REPAIR AREAS SHALL BE VERIFIED AND APPROVED BY THE FIELD ENGINEER.

CONCRETE SURFACE REPAIR SHALL INCLUDE THE MEDIAN AND SIDEWALK REPAIRS AS SHOWN ON THE "DECK REHABILITATION AREAS" SHEET.

LOCATIONS OF THE FOLLOWING BID ITEMS SHALL BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER, QUANTITIES SHOWN FOR THESE BID ITEMS ARE APPROXIMATE:
-CRACK SEALING EPOXY
-PREPARATION DECKS TYPE 1
-PREPARATION DECKS TYPE 2
-CURB REPAIR
-CONCRETE SURFACE REPAIR
-FULL DEPTH DECK REPAIR
-TUBULAR RAILING REPAIR TYPE 1
-TUBULAR RAILING REPAIR TYPE 2

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-505

DRAWN BY MM | PLANS CK'D. MHZ

GENERAL NOTES & QUANTITIES

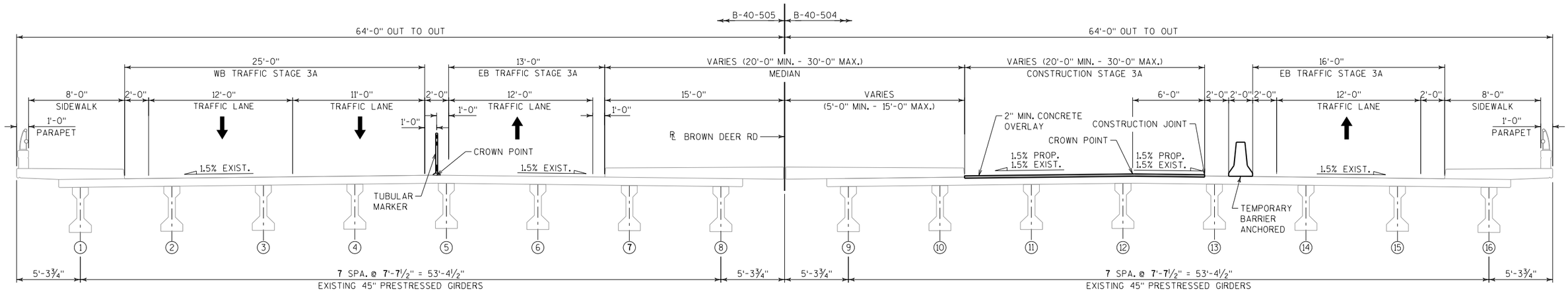
SHEET 3 OF 8

8

8

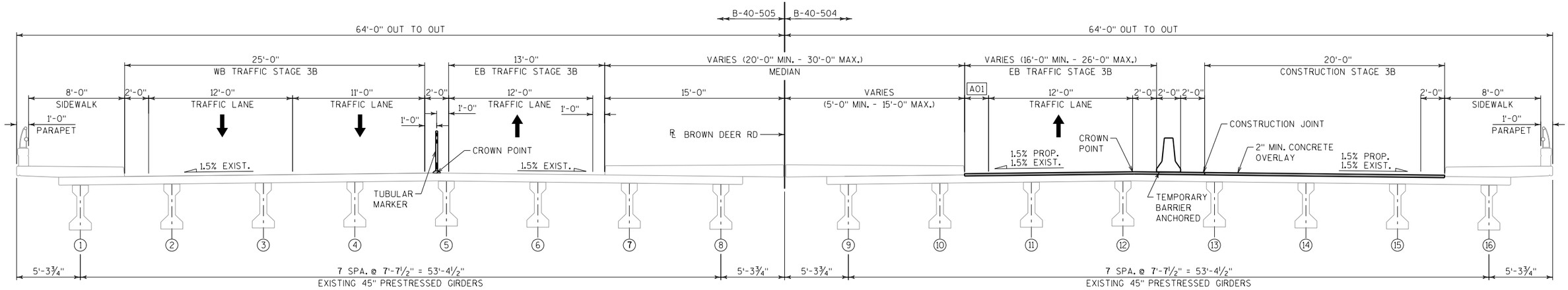
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STATE PROJECT NUMBER
2150-00-72



CONSTRUCTION STAGE 3A

(LOOKING EAST)
(DIMENSIONS AND CROSS SLOPES TAKEN FROM EXISTING STRUCTURE PLANS)



CONSTRUCTION STAGE 3B

(LOOKING EAST)
(DIMENSIONS AND CROSS SLOPES TAKEN FROM EXISTING STRUCTURE PLANS)

8

8

LEGEND

- A01 DIMENSION VARIES (2'-0" MIN. - 12'-0" MAX.)
- ➡ DIRECTION OF TRAFFIC
- (X) GIRDER NUMBER

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-505

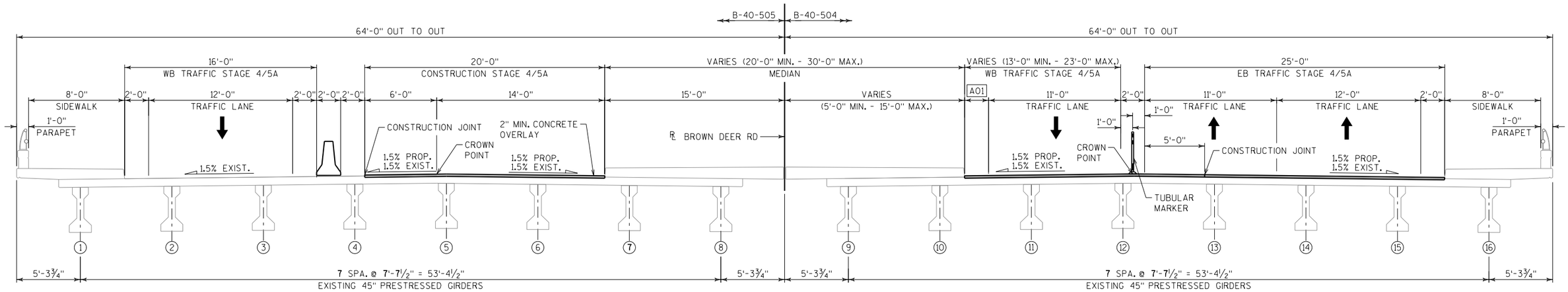
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CONSTRUCTION STAGING (1 OF 2)

SHEET 4 OF 8

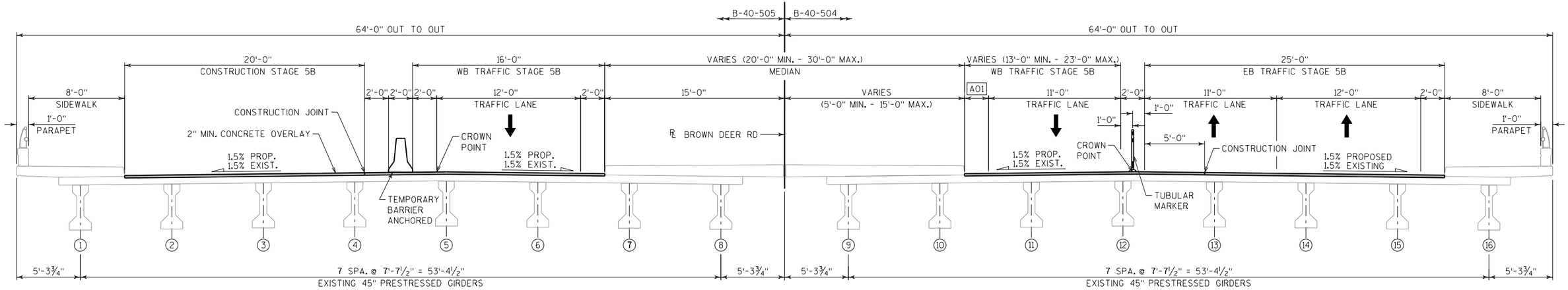
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PLOT BY : aaschenbrenner
PLOT NAME : $FILE$
PLOT SCALE : 1:8.33333

STATE PROJECT NUMBER
2150-00-72



CONSTRUCTION STAGE 4/5A

(LOOKING EAST)
(DIMENSIONS AND CROSS SLOPES TAKEN FROM EXISTING STRUCTURE PLANS)



CONSTRUCTION STAGE 5B

(LOOKING EAST)
(DIMENSIONS AND CROSS SLOPES TAKEN FROM EXISTING STRUCTURE PLANS)

8

8

LEGEND

- A01 DIMENSION VARIES (2'-0" MIN. - 12'-0" MAX.)
- ➡ DIRECTION OF TRAFFIC
- (X) GIRDER NUMBER

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-505

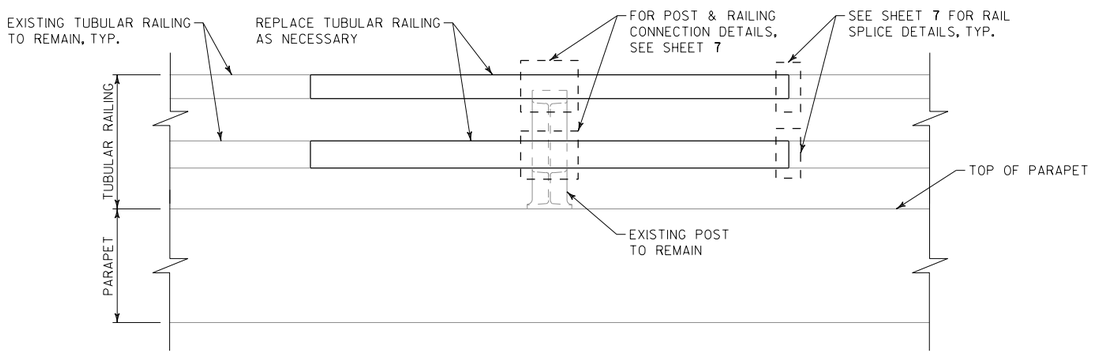
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CONSTRUCTION STAGING (2 OF 2)

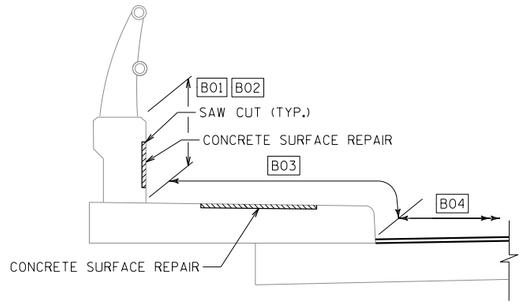
SHEET 5 OF 8

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PLOT BY : aaschenbrenner
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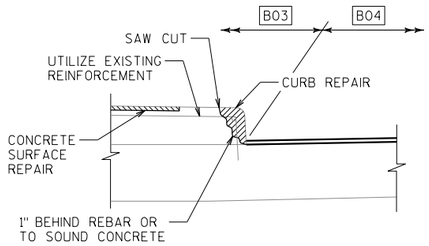
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2150-00-72



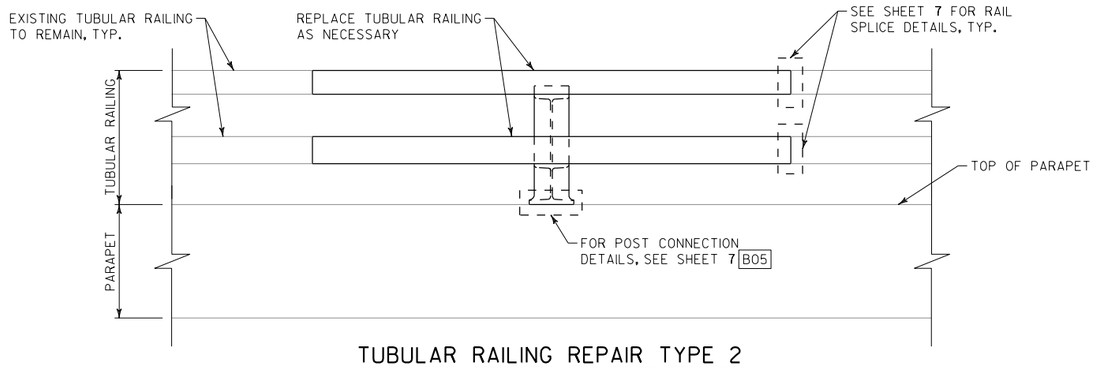
TUBULAR RAILING REPAIR TYPE 1



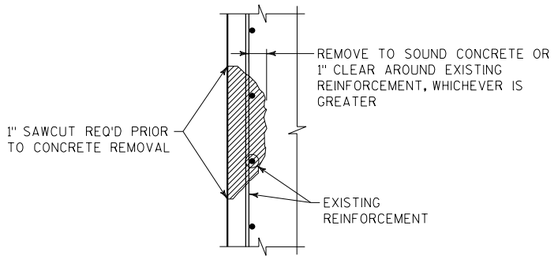
PARAPET REPAIR DETAIL



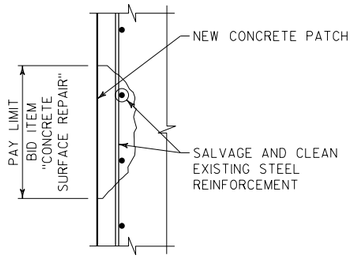
CURB REPAIR DETAIL



TUBULAR RAILING REPAIR TYPE 2



TYPICAL CONCRETE SURFACE REMOVAL DETAIL
(FOR ABUTMENTS AND PIER)



TYPICAL CONCRETE SURFACE REPAIR DETAIL
(FOR ABUTMENTS AND PIER)

NOTE

FOR TUBULAR RAILING TYPE 'H' DETAILS, SEE SHEET 7.

LEGEND

- B01 "CLEANING PARAPETS" LIMITS
- B02 "PIGMENTED SURFACE SEALER" LIMITS
- B03 "PROTECTIVE SURFACE TREATMENT RESEAL" LIMITS
- B04 "PROTECTIVE SURFACE TREATMENT" LIMITS
- B05 EXISTING POST ANCHORS ARE TO REMAIN

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-505

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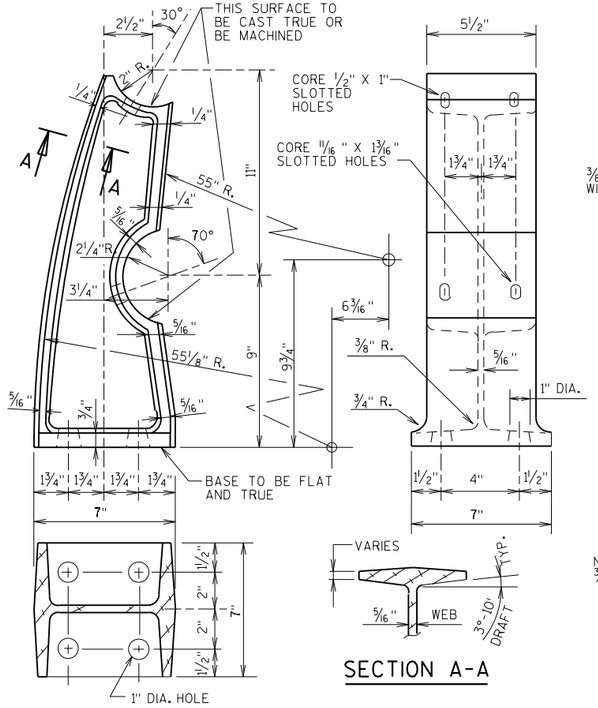
REHABILITATION DETAILS

SHEET 6 OF 8

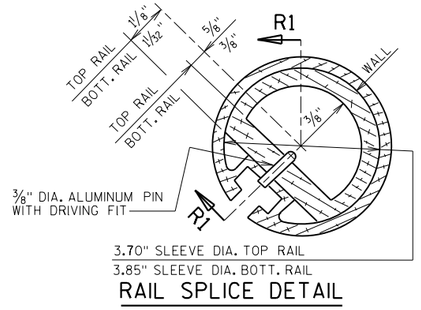
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PLOT NAME : $FILE$
PLOT SCALE : 1:8

STATE PROJECT NUMBER

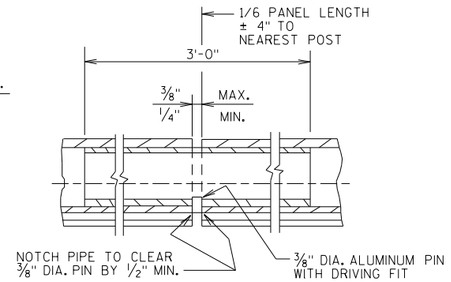
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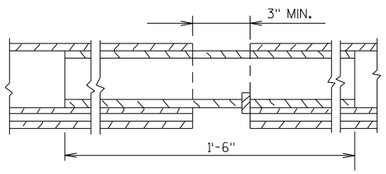
ALUMINUM POST CASTING



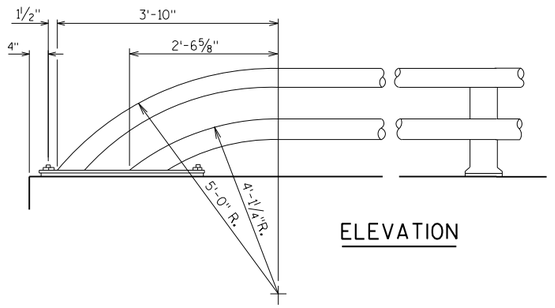
RAIL SPLICE DETAIL



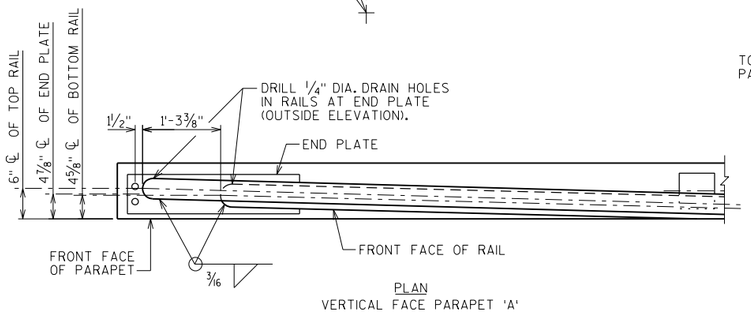
SECTION R1



SLEEVE DETAIL AT ABUTMENT

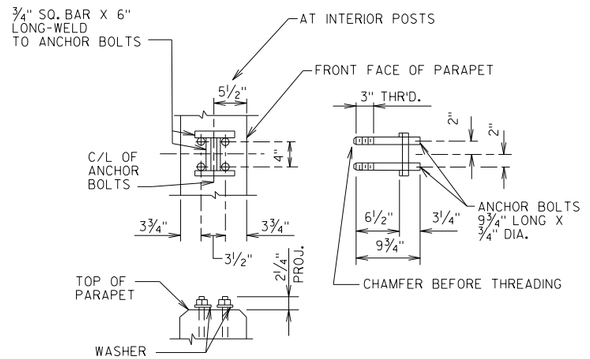


ELEVATION

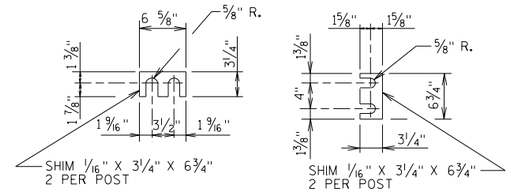


PLAN
VERTICAL FACE PARAPET 'A'

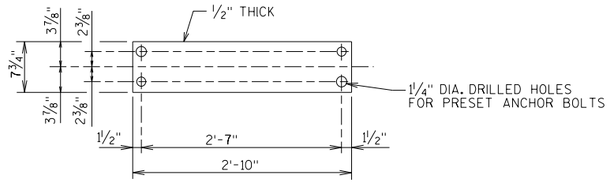
DETAIL OF RAIL BEND AT ABUTMENTS



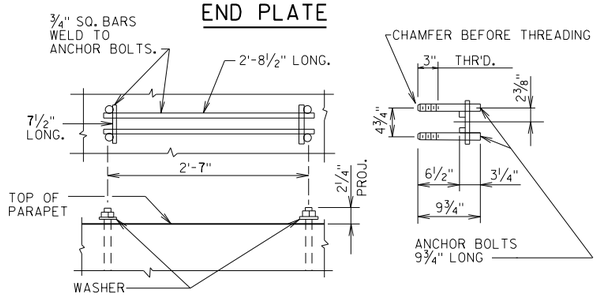
ANCHOR BOLTS AT POSTS



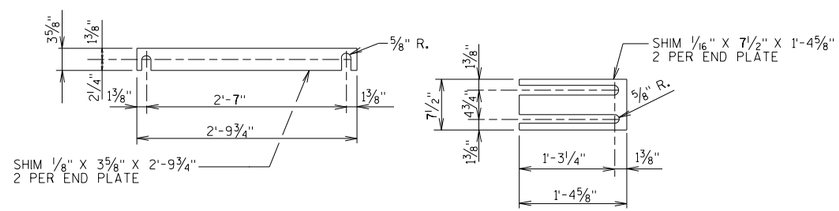
POST SHIM DETAILS



END PLATE



ANCHOR BOLTS AT END PLATE



END PLATE SHIM DETAILS

NOTES

BID ITEM SHALL BE "TUBULAR RAILING REPAIR TYPE 1" OR "TUBULAR RAILING REPAIR TYPE 2" WHICH INCLUDES ALL ITEMS SHOWN.

ANCHOR BOLTS, NUTS AND WASHERS SHALL BE STAINLESS STEEL.

SHIMS SHALL CONFORM TO SAME MATERIAL AS POSTS.

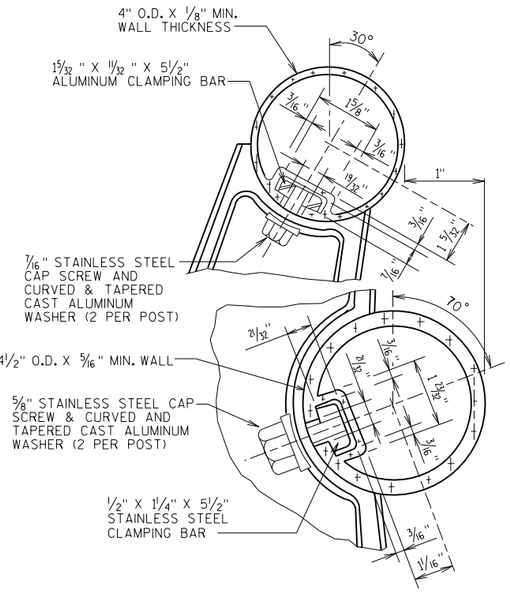
RAILING POSTS SHALL BE SET NORMAL TO GRADE LINE.

SHIMS SHALL BE USED UNDER POSTS AND END PLATES WHERE REQ'D. FOR ALIGNMENT.

FILL ALL EXPOSED OPENINGS BETWEEN SHIMS AND POST ANCHOR BOLT HOLES WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.

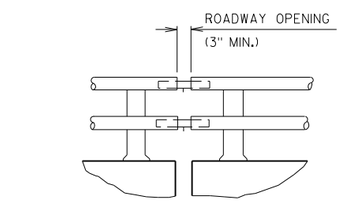
RAILS SHALL BE BUILT STRAIGHT AND SPRUNG INTO PLACE FOR STRUCTURES CURVED UP TO 3°. FOR STRUCTURES CURVED GREATER THAN 3°, RAILS SHALL BE CURVED TO FIT.

TYPE 'H' (STEEL) RAILING SHALL NOT BE USED.



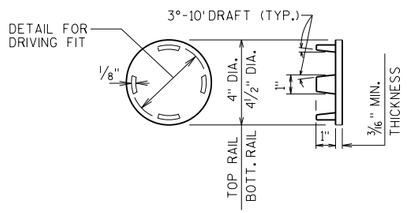
DETAIL OF RAIL ATTACHMENT TO POST

NOTES: MAX. REDUCTION IN DIAMETER OF BENT SECTION SHALL BE 3%. WALL THICKNESS OF TUBING SHOWN ABOVE SHALL BE MIN. NOMINAL AVERAGE WALL THICKNESS. MAX. REDUCTION IN SLOT WIDTH IN BENT TUBING SHALL BE 3/16".



DETAIL AT RAIL OPENINGS

ALL SLEEVE DETAILS SAME AS "RAIL SPLICE DETAIL" UNLESS SHOWN OTHERWISE



RAIL CLOSURE CAP DETAIL

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-505

DRAWN BY MM | PLANS CK'D. MHZ

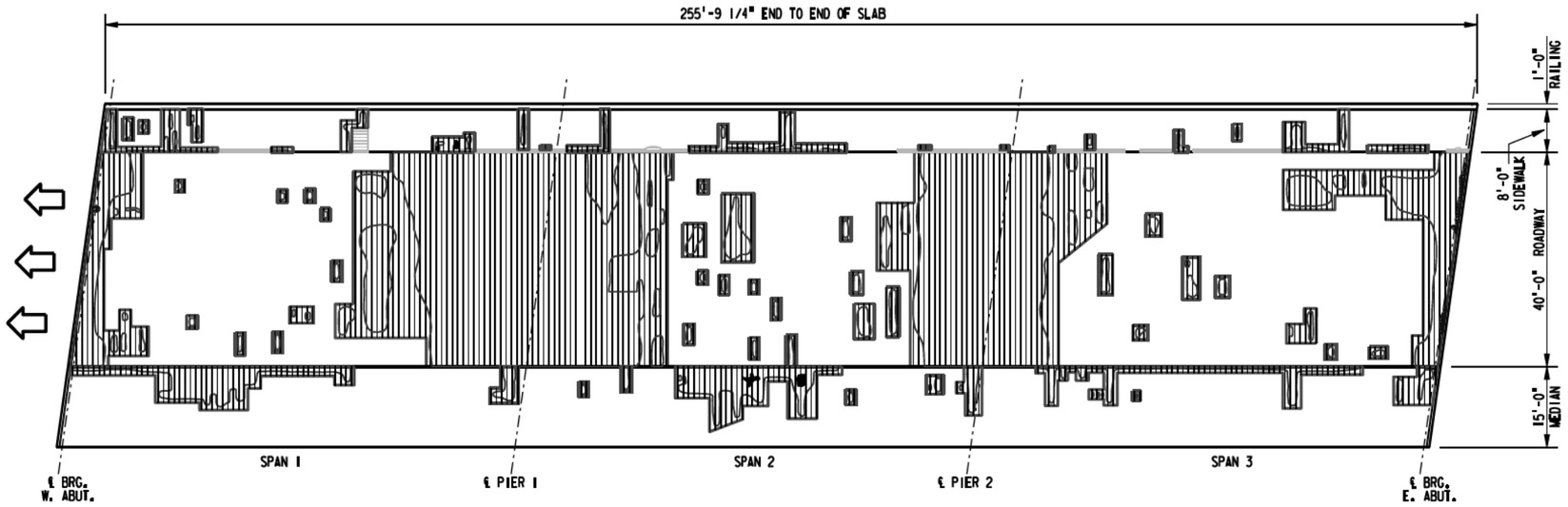
TUBULAR RAILING TYPE 'H' (ALUM.)

SHEET 7 OF 8

FILE NAME : S:\DOT\DOT_SE\170330-ID2150-00-02_STH100\Structures\B-40-505\cds\B505_080502_rp.dgn
PLOT DATE : 4/29/2021
PLOT BY : aschenbrenner
PLOT NAME : $FILE$
PLOT SCALE : 1:8

STATE PROJECT NUMBER

2150-00-72



PLAN

PROPOSED REHABILITATION AREAS

N

STRUCTURE NO. B-40-505

REHABILITATION AREA SUMMARY		ROADWAY		SIDEWALK		MEDIAN	
ITEM	UNIT	QUANT.	%	QUANT.	%	QUANT.	%
TOTAL AREA	yd²	1136.9		227.3		426.3	
SHADE/DEBRIS	yd²	0		0		0	
PREPARATION, DECKS, TYPE 1	yd²	522.1	45.9	36.2	15.9	76.7	18.0
PREPARATION, DECKS, TYPE 2	yd²	391.6	34.4	3.6	1.6	7.7	1.8
FULL DEPTH DECK REPAIR	yd²	1.0	0.1	0	0	0	0

LEGEND

DECK PREPARATION AREA

SHADE/DEBRIS

DELAMINATION

SPALL

DEBOND

ASPHALT PATCH

CONCRETE PATCH

SCALE 0' 5' 10' 20'

SURFACE TYPE: PCC OVERLAY

INFRARED INSPECTION DATE: 9/21/20

DATA COLLECTED
ANALYSIS TC
CARD
CHECKED DJU
Copyright © 2020 AECOM

NO.	DATE	REVISIONS	DRWN	CHK

AECOM

PROPOSED REHABILITATION AREAS FOR STH 100 WB - BROWN DEER ROAD OVER MILWAUKEE RIVER STRUCTURE NO. B-40-505

PREPARED FOR WISCONSIN DEPARTMENT OF TRANSPORTATION SOUTHEAST REGION

DATE 9/29/20

PROJECT NO 60630160

FILENAME B-40-505-REHAB.DGN

SHEET NO 1 OF 1

DRAWING NO

NOTE

REHABILITATION AREAS SHOWN ON THIS SHEET ARE FOR INFORMATION ONLY. THE FIELD ENGINEER WILL SOUND THE DECK AND MARK AREAS IN THE FIELD. THE ESTIMATED QUANTITIES FOR THE DECK PREPARATION AND DECK REPAIR BID ITEMS ARE ADAPTED FROM THE ABOVE INFRARED THERMOGRAPHY SURVEY RESULTS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-505

DRAWN BY MM | PLANS CK'D. MHZ

DECK REHABILITATION AREAS

SHEET 8 OF 8

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

http://www.dot.wisconsin.gov

WKE

SEPTEMBER 2021

PROJECT ID: 2270-04-70

WITH: 2150-00-72, 2565-07-70

COUNTY: MILWAUKEE/OZAUKEE

ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details
Section No.	3	Estimate of Quantities
Section No.	3	Miscellaneous Quantities
Section No.	4	Right of Way Plat
Section No.	5	Plan and Profile
Section No.	6	Standard Detail Drawings
Section No.	7	Sign Plates
Section No.	8	Structure Plans
Section No.	9	Computer Earthwork Data
Section No.	9	Cross Sections

TOTAL SHEETS = 1256



24

N

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

STH 57 - VIL BROWN DEER & CITY MEQUON

TEUTONIA AVENUE TO MEQUON ROAD

STH 57

MILWAUKEE & OZAUKEE COUNTY

STATE PROJECT NUMBER
2270-04-70

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
2270-04-70	WISC 2021441	1
2150-00-72	———	—
2565-07-70	WISC 2021442	1

DESIGN DESIGNATION			MILWAUKEE COUNTY STH 57	MILWAUKEE COUNTY STH 100	OZAUKEE COUNTY STH 57
A.A.D.T.	2017	=	22300	26100	13900
A.A.D.T.	2041	=	25000	29300	15500
D.H.V.		=	5.3	---	---
D.D.		=	59/41	--/--	--/--
T.		=	6.2%	--%	--%
DESIGN SPEED		=	45	45	50
ESALS		=	3,100,000	3,600,000	2,000,000

CONVENTIONAL SYMBOLS

PLAN

- CORPORATE LIMITS
- PROPERTY LINE
- LOT LINE
- LIMITED HIGHWAY EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- SLOPE INTERCEPT
- REFERENCE LINE (300'EB')
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

PROFILE

- GRADE LINE
- ORIGINAL GROUND
- MARSH OR ROCK PROFILE (To be noted as such) (ROCK)
- SPECIAL DITCH (LABEL)
- GRADE ELEVATION (95.36)
- CULVERT (Profile View)

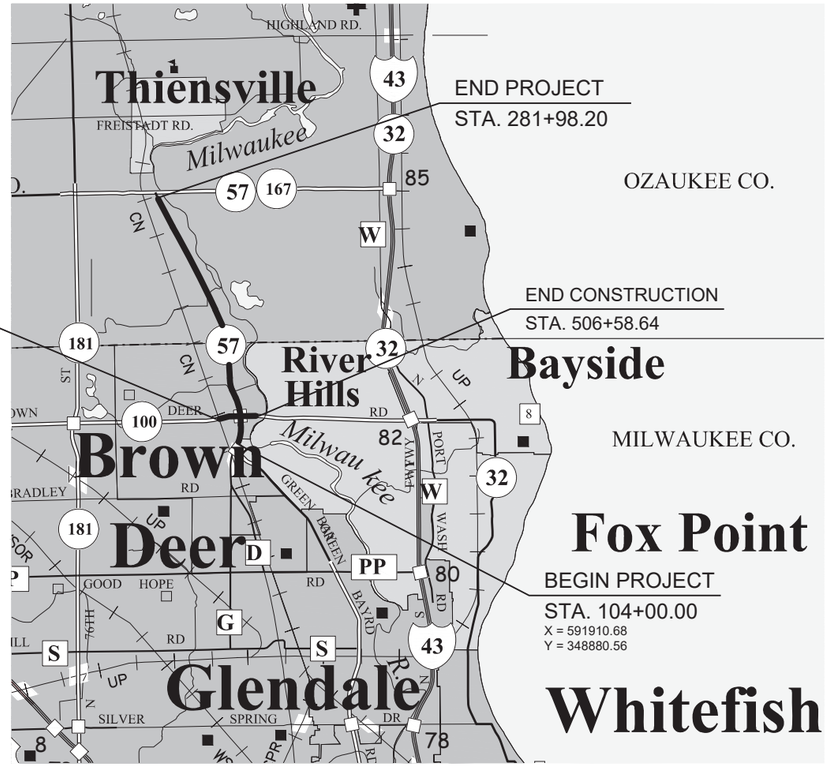
UTILITIES

- ELECTRIC (E)
- FIBER OPTIC (FO)
- GAS (G)
- SANITARY SEWER (SAN)
- STORM SEWER (SS)
- TELEPHONE (T)
- WATER (W)
- UTILITY PEDESTAL
- POWER POLE
- TELEPHONE POLE

R- 21 -E R- 22 -E

T- 9 -N

T- 8 -N



END PROJECT
STA. 281+98.20

BEGIN CONSTRUCTION
STA. 481+97.91

END CONSTRUCTION
STA. 506+58.64

BEGIN PROJECT
STA. 104+00.00
X = 591910.68
Y = 348880.56

LAYOUT

SCALE 0 2 MI

TOTAL NET LENGTH OF CENTERLINE = 3.371 MILES

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, MILWAUKEE&OZAUKEE COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM, NAVD 88(2012).

ORIGINAL PLANS PREPARED BY

Lakeside ENGINEERS

WISCONSIN ANTHONY BUBLITZ 44355-6 MILWAUKEE, WI PROFESSIONAL ENGINEER

4/28/21 (Date) (Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	DAAR ENGINEERING
Designer	LAKESIDE ENGINEERS
Project Manager	ALLEN GILBERTSON, P.E.
Regional Examiner	REGIONAL EXAMINER
Regional Supervisor	JANET CANNON, P.E.

APPROVED FOR THE DEPARTMENT

DATE 4/28/2021 Allen Gilbertson (Signature)

E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\010101_TI.DWG

PLOT DATE : 4/23/2021 10:17 AM

PLOT BY : TONY BUBLITZ

PLOT NAME :

ORDER OF SECTION 2 SHEETS

PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
PLAN DETAILS
REMOVALS
EROSION CONTROL
STORM SEWER
SANITARY SEWER
LANDSCAPING
PERMANENT SIGNING
TRAFFIC SIGNALS
PAVEMENT MARKING
TRAFFIC CONTROL
STAGE CONSTRUCTION
DETOURS
ALIGNMENT

ABBREVIATIONS

ADT	AVERAGE DAILY TRAFFIC
AGG	AGGREGATE
BAD	BASE AGGREGATE DENSE
BM	BENCH MARK
CB	CATCH BASIN
C&G	CURB AND GUTTER
C-C	CENTER TO CENTER
CONC	CONCRETE
CSD	CONCRETE SURFACE DRAIN
CTR	CENTER
CWT	HUNDREDWEIGHT
CY	CUBIC YARD
D	DEGREE OF CURVE
Δ	DELTA
DD	DIRECTIONAL DISTRIBUTION
DHV	DESIGN HOUR VOLUME
DIA	DIAMETER
E	EAST
EB	EASTBOUND
EL OR ELEV	ELEVATION
EXIST	EXISTING
FS	FULL SUPERELEVATION
FT	FOOT
HE	HIGHWAY EASEMENT
HMA	HOT MIX ASPHALT
INCID	INCIDENTAL
INL	INLET
L	LENGTH OF CURVE
LF	LINEAR FOOT
LONG	LONGITUDINAL
LT	LEFT
MH	MANHOLE
MIN	MINIMUM
ML OR M/L	MATCH LINE
N	NORTH
NB	NORTHBOUND
NC	NORMAL CROWN
NTS	NOT TO SCALE
PAVT	PAVEMENT
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PI	POINT OF INTERSECTION
PLE	PERMANENT LIMITED EASEMENT
PT	POINT OF TANGENCY
PVC	POINT OF VERTICAL CURVATURE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
R	RADIUS
RCPSS	REINFORCED CONCRETE PIPE STORM SEWER
REQD	REQUIRED
R/L	REFERENCE LINE
RO	RUN OFF LENGTH
RT	RIGHT
RW OR R/W	RIGHT-OF-WAY
S	SOUTH
SB	SOUTHBOUND
SDD	STANDARD DETAIL DRAWING
SHT	SHEET
SI	SLOPE INTERCEPT
SS	STORM SEWER
STA	STATION
SY	SQUARE YARD
SYM	SYMMETRICAL
T	TANGENT LENGTH
TEMP	TEMPORARY
TYP	TYPICAL
V	VELOCITY OR DESIGN SPEED
VAR	VARIABLE OR VARIES
W	WEST
WB	WESTBOUND
YD	YARD

UTILITIES

AT&T Local Network - Communication Line
Jennifer Navarro
13500 Watertown Plank Rd, Suite 107
Elm Grove, WI 53122
(414) 459-3564
j.navarro@northwindtech.com

City of Mequon Department of Public Works -Water
Jim Voigt
P.O. Box 1726
Milwaukee, WI 53201
(414) 559-8656
jim.voigt@citywaterusa.com

Spectrum - Communication Line
Beau Abuya
1320 N Dr Martin Luther King Jr Dr
Milwaukee, WI 53212
(414) 758-9241
beau.abuya@charter.com

We Energies - Electricity
Gregory Boerner
500 S 116th Street
West Allis, WI 45214
(618) 409-5861
gregory.boerner@we-energies.com

Wisconsin Department of Transportation - Signals
Parwinder Virk
141 NW Barstow St
Waukesha, WI 53187-0798
(414) 852-0829
parwinder.virk@dot.wi.gov

AT&T Wisconsin - Communication Line
Jeff Oldenburg
2005 Pewaukee Rd
Waukesha, WI 53188-2443
(262) 896-7522
jo2376@att.com

Level 3- Communication Line
Jason Busse
3235 Intertech Dr, Suite 600
Brookfield, WI 53045
(414) 224-6713
jason.buse@Centurylink.com

Verizon Business - Communication Line
RJ Cicatello
15725 W Ryerson Rd
New Berlin, WI 53151
(262) 232-1323
randy.cicatello@verizon.com

We Energies - Gas/Petroleum
Jacob Hulbert
500 S 116th Street
West Allis, WI 45214
(414) 944-5575
jacob.hulbert@we-energies.com

ATC Management, Inc. - Electricity-Transmission
Chris Dailey
P.O. Box 47
Waukesha, WI 53187
(262) 506-6884
cdailey@atcllc.com

Midwest Fiber Networks LLC - Communication Line
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Glendale, WI 53209
(414) 459-3561
cschmuki@midwestfibernetworks.com

Village of Brown Deer – Lighting & Sanitary Sewer
Matthew Maederer
8950 N Arbon Dr
Brown Deer, WI 53223-2496
(414) 371-3021
mmaeder@browndeerwi.org

Windstream KDL & NTI, LLC - Communication Line
Lori Ketter
13500 Watertown Plank Rd, Ste 107
Elm Grove, WI 53122
(414) 274-9215
l.ketter@northwindtech.com

City of Mequon Department of Public Works -Lighting, Sewer & Signals
Kevin Driscoll
11333 N Cedarburg Rd
Mequon, WI 53092
(262) 236-2937
kdriscoll@ci.mequon.wi.us

Milwaukee Metropolitan Sewerage District - Sewer
Mikki-Klappa-Sullivan
201 W Seeboth Street
Milwaukee, WI 53201
(414) 225-2178
MKlappaSullivan@mmsd.com

Village of Brown Deer – Water
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8950 N Arbon Dr
Brown Deer, WI 53223-2496
(414) 371-3082
tnennig@browndeerwi.org

Wisconsin Department of Transportation - Street Lighting
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Waukesha, WI 53087-0798
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Eric.Perea@dot.wi.gov

LOCAL AGENCIES

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Port Washington, WI 53074
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jedgren@co.ozaukee.wi.us

Milwaukee County Parks
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Wauwatosa, WI 53226
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Jessica.Wineberg@milwaukeecountywi.gov

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Wisconsin Department of Transportation
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Wisconsin Department of Natural Resources
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Milwaukee County Transit System
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Milwaukee, WI 53205
Melanie Flynn
Lead Coordinator of Street Supervision (Routes)
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Armond Sensabaugh
Transit Planner (Stops/Shelters)
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Chris Quesnell
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Chris.Quesnell@lakesideengineers.com

OTHER AGENCIES

Southeast Wisconsin Regional Planning Commission
Rob Merry
W239N1812 Rockwood Drive
P.O. Box 1607
Waukesha, WI 53187
(262) 953-4289
rmerry@sewrpc.org

DIGGERS HOTLINE
Dial 811 or (800)242-8511
www.DiggersHotline.com

GENERAL NOTES

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT AREAS WITHIN THE FINISHED SHOULDER POINTS, SHALL BE FERTILIZED, SEEDED, AND MULCHED.

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. THE CONTRACTOR IS FULLY RESPONSIBLE FOR LOCATING AND AVOIDING ALL UNDERGROUND AND ABOVE GROUND STRUCTURES AND FACILITIES.

STATIONING, DISTANCES, AND OFFSETS FOR SIGNS SHOWN ON THE PLANS ARE APPROXIMATE AND THE FINAL LOCATION OF THE SIGNS ARE TO BE DETERMINED BY THE ENGINEER.

TRAFFIC CONTROL DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

WETLAND, WATERWAYS, AND OTHER ENVIRONMENTALLY SENSITIVE AREAS SHALL BE PROTECTED AT ALL TIMES. DO NOT STORE EQUIPMENT OR MATERIAL NEAR THESE SITES UNLESS APPROVED BY THE ENGINEER.

REFER TO THE EROSION CONTROL SPECIAL PROVISION FOR REQUIREMENTS

NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.

ANY REINFORCEMENT LOCATED IN EXISTING CONCRETE PAVEMENT SHALL BE CONSIDERED INCIDENTAL TO THE REMOVING PAVEMENT ITEM, AND NO ADDITIONAL COMPENSATION WILL BE GRANTED.

NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY LOCAL MUNICIPAL UTILITY WHICH IS NOT A MEMBER OF THE DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.

WHEN THE QUANTITY OF HMA PAVEMENT OR BASE AGGREGATE IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS OF THE LAYER SHOWN ON THE PLAN IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

CURB HEIGHTS AT THE END OF CURB AND GUTTER SHALL BE TAPERED FROM 0 TO 4 INCHES OR 0 TO 6 INCHES IN 6 FEET, TO BE PAID AS CURB AND GUTTER

CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE OF CURB AND GUTTER OR THEORETICAL FLANGE POINT OF INTEGRAL CURB AND GUTTER. CURB AND GUTTER RADII ARE MEASURED TO THE FACE OF CURB AND GUTTER .

EXISTING DRIVEWAYS AND FIELD ENTRANCES SHALL BE RESTORED IN KIND AS DIRECTED BY THE ENGINEER IN THE FIELD AND AT THE LOCATION DETERMINED BY THE ENGINEER. PROVIDE A TYPICAL SIDEWALK CROSS SLOPE OF 1.5% WITH A CONSTRUCTION TOLERANCE OF +/- 0.5%.

A SAWED JOINT IS REQUIRED WHERE NEW HMA PAVEMENT MEETS EXISTING HMA PAVEMENT.

FERTILIZER SHALL NOT BE USED WITHIN 100’ OF NAVIGABLE WATERWAYS OR WETLANDS.

WHEN DEFINING THE PAVEMENT STRUCTURE, THE BOTTOM OF THE BASE AGGREGATE DENSE IS CONSIDERED THE SUBGRADE LINE. THE SELECT CRUSHED MATERIAL LAYER IS A SUBGRADE IMPROVEMENT.

BROKEN CONCRETE CONTAINING RE-BAR SHALL NOT BE USED AS RIPRAP MEDIUM.

CONTACT THE PROJECT ENGINEER AND THE SOUTHEASTERN WISCONSIN REGIONAL PLANNING COMMISSION (SEWRPC) AT LEAST TWO WEEKS PRIOR TO WORK NEAR ANY PUBLIC SURVEY MONUMENT.

SAW CUTS IN EXISTING PAVEMENT AND SIDEWALKS SHALL BE NEAT STRAIGHT LINES. EDGES OF SAW CUT EDGES DAMAGED DURING CONSTRUCTION SHALL BE RECUT PRIOR TO ACCEPTANCE FOR PAVING.

VERIFY EXISTING PAVEMENT ELEVATIONS AT ALL TIE-INS TO EXISTING PAVEMENT PRIOR TO CONSTRUCTION. IF A DISCREPANCY IS FOUND BETWEEN PROPOSED PLAN ELEVATIONS AND EXISTING PAVEMENT ELEVATIONS, CONTRACTOR IS TO NOTIFY ENGINEER.

EXISTING BUSINESS SIGNS LOCATED WITHIN THE TLE ARE TO REMAIN UNLESS SHOWN IN THE REMOVAL PLAN.

THE EXACT LOCATION OF EXCAVATION BELOW SUBGRADE (EBS) WILL BE DETERMINED BY THE ENGINEER.

ALL PRIVATE EXISTING UTILITIES ARE TO BE ADJUSTED BY THE UTILITIES CONCERNED.

SAWCUT ASPHALTIC AND CONCRETE DRIVEWAYS AND/OR PARKING LOTS AT THE MATCHLINE AS SHOWN ON THE PAVING DETAILS OR AS DIRECTED BY THE ENGINEER.

PAVEMENT APPLICATION	PAVEMENT TYPE	TOTAL LAYER PAVEMENT THICKNESS	LAYERS
RESURFACING & PAVEMENT REPLACEMENT	4MT 58-28S	1 ¾“	UPPER
	3MT 58-28S	2 ¼“	LOWER
ROADWAY WIDENING	4MT 58-28S	1 ¾“	UPPER
	3MT 58-28S	2 ½“	MIDDLE
	3MT 58-28S	2 ¾“	LOWER
RAILROAD CROSSING	4MT 58-28S	1 ¾“	UPPER
	3MT 58-28S	2 ½“	MIDDLE
	3MT 58-28S	2 ¾“	LOWER

2

kapur
all in

WISCONSIN
KURT A.
FARRENKOPF
E-27600
MENOMONEE FALLS,
WI.
PROFESSIONAL ENGINEER

4/23/21
(Date)

Kurt A. Farrenkopf
(Signature)

RESPONSIBLE FOR:
STH 57 – DEERWOOD DR TO MEQUON RD
AND DONGES BAY ROAD
- TYPICAL SECTIONS
- CURB RAMP DETAILS
- PLAN DETAILS
- REMOVAL
- EROSION CONTROL
- PAVEMENT MARKING
- TRAFFIC CONTROL
- PLAN AND PROFILE
- EARTHWORK
- CROSS SECTIONS

STH 100/STH 57 ROUNDABOUT
- LANDSCAPING

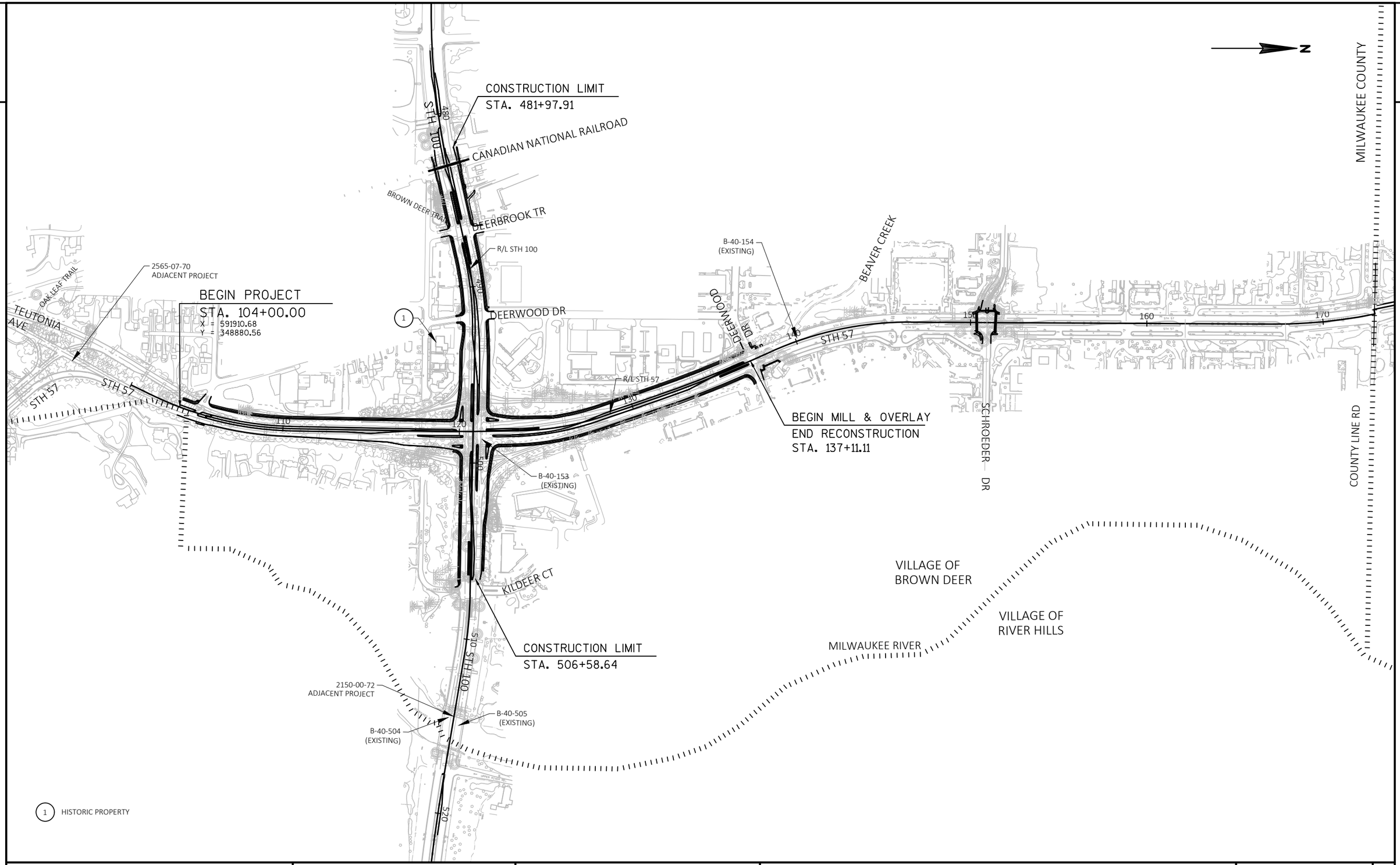
kapur
all in

WISCONSIN
PRASAD S.
NARAYAN
E-26170
BROOKFIELD,
WI.
PROFESSIONAL ENGINEER

4/23/21
(Date)

Prasad Narayan
(Signature)

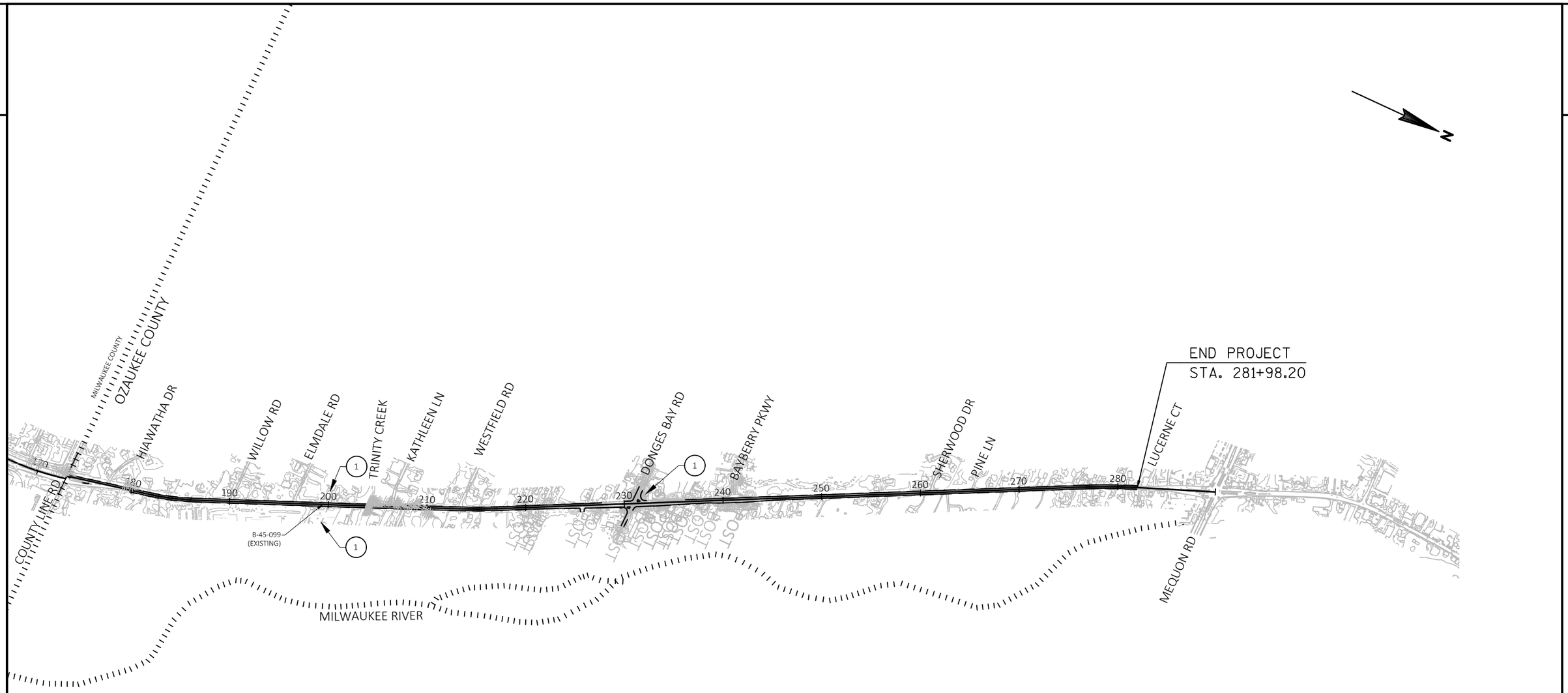
RESPONSIBLE FOR:
STORM SEWER



PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PROJECT OVERVIEW	SHEET 5	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\020201_PO.DWG
LAYOUT NAME - 020201
PLOT DATE : 3/4/2021 3:51 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:500 FT
WISDOT/CADDS SHEET 42

2

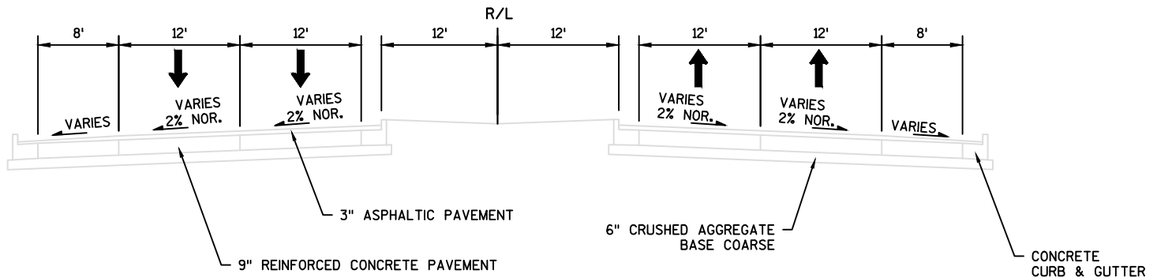


1 HISTORIC PROPERTY

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PROJECT OVERVIEW	SHEET 6	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\020201_PO.DWG
LAYOUT NAME - 020202

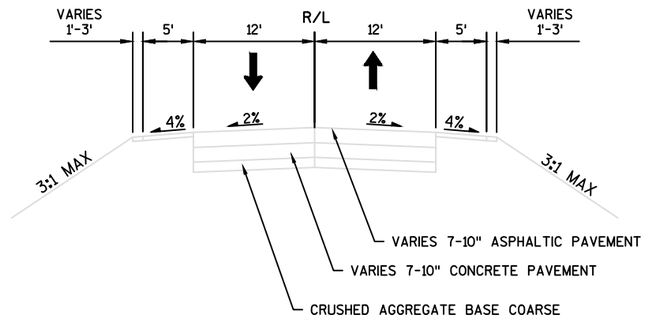
PLOT DATE : 3/4/2021 3:51 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:1000 FT



TYPICAL EXISTING SECTION

STH 57

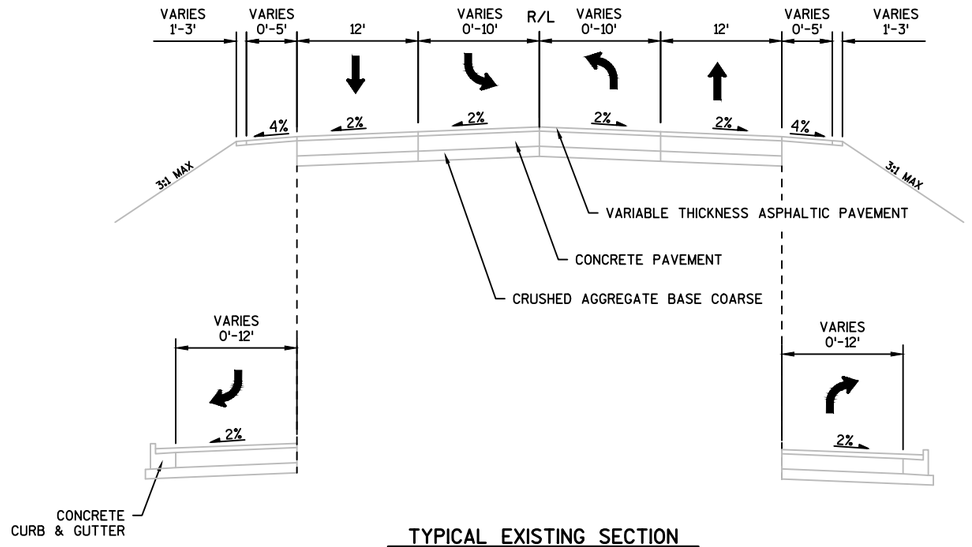
STA 104+00 TO STA 173+00



TYPICAL EXISTING SECTION

STH 57

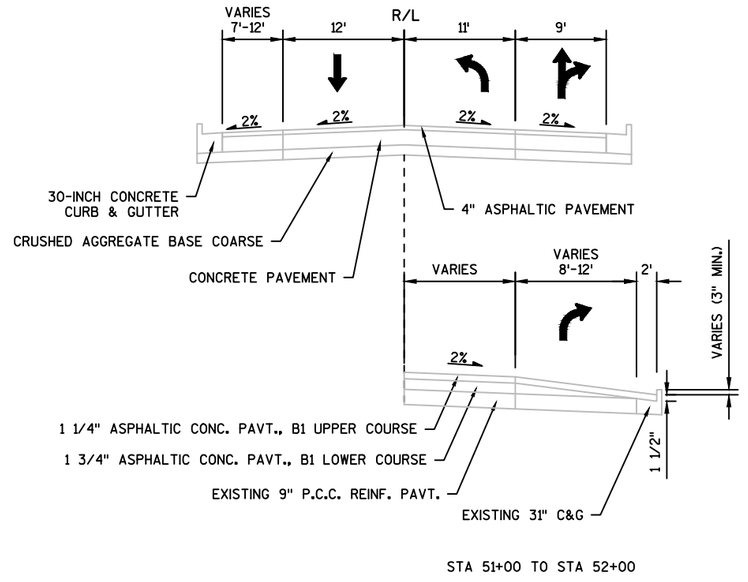
STA 173+00 TO STA 229+50
STA 234+20 TO STA 281+98



TYPICAL EXISTING SECTION

STH 57

STA 229+50 TO STA 234+20

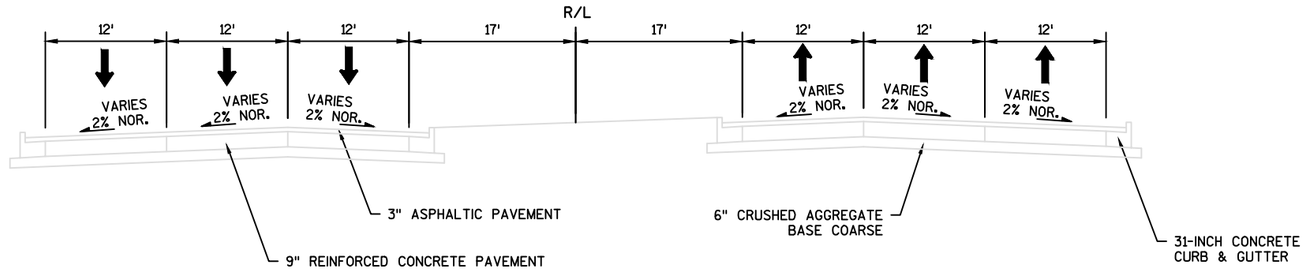


STA 51+00 TO STA 52+00

TYPICAL EXISTING SECTION

DONGES BAY ROAD

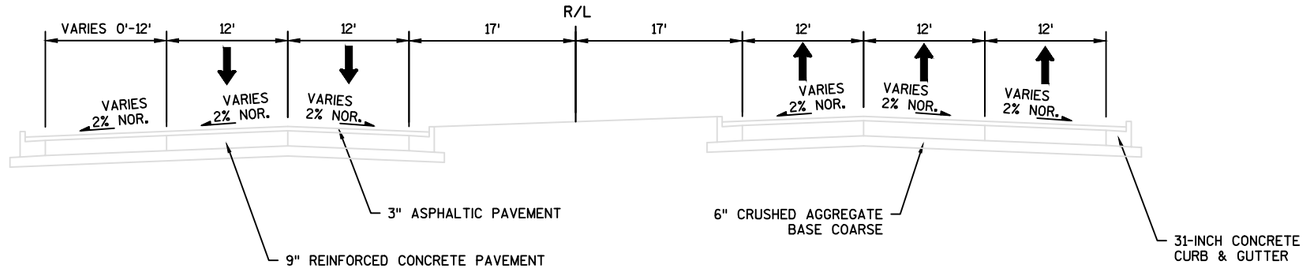
STA 45+00 TO STA 50+00



TYPICAL EXISTING SECTION

STH 100

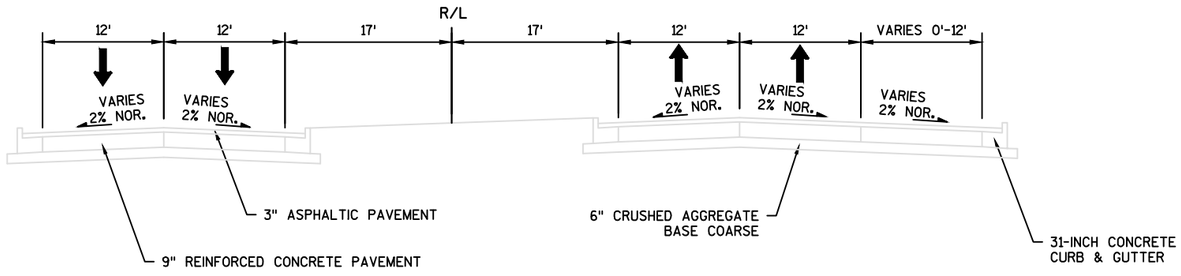
STA 481+97 TO STA 492+50



TYPICAL EXISTING SECTION

STH 100

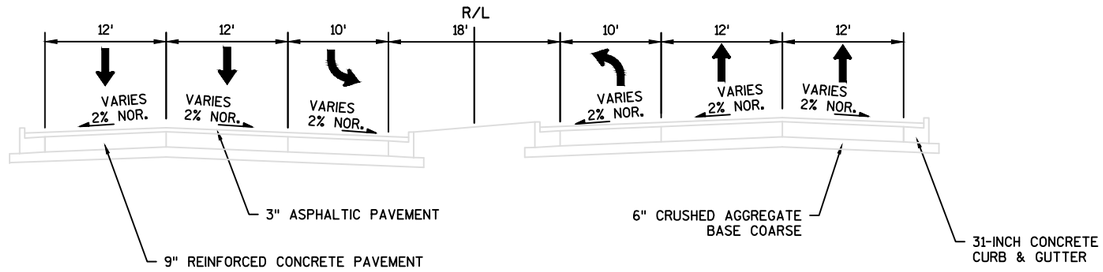
STA 492+50 TO STA 494+50



TYPICAL EXISTING SECTION

STH 100

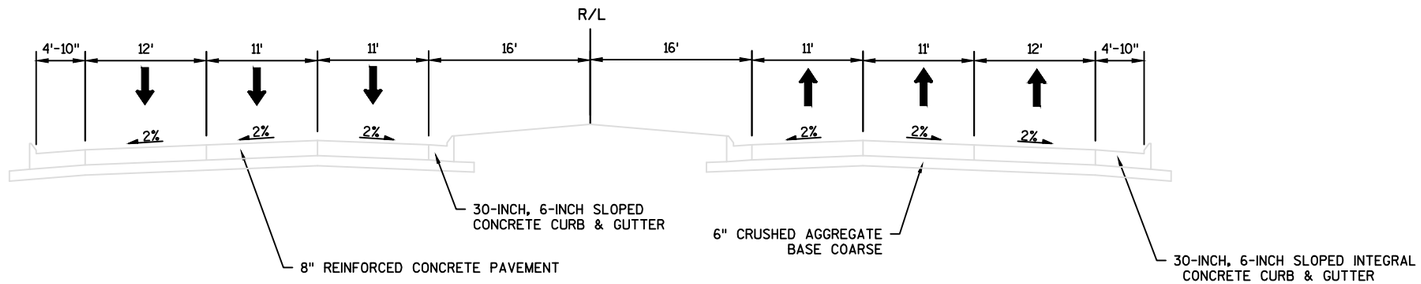
STA 494+50 TO STA 496+25



TYPICAL EXISTING SECTION

STH 100

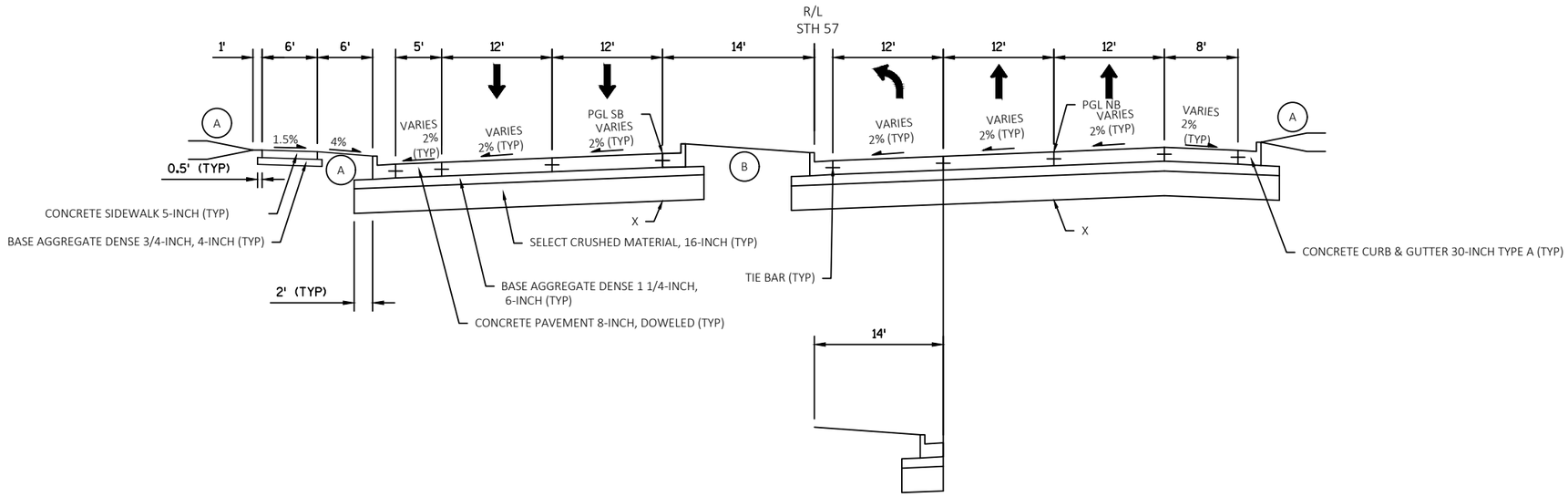
STA 496+25 TO STA 501+00



TYPICAL EXISTING SECTION

STH 100

STA 501+00 TO STA 506+59



STA 105+10 TO STA 105+65

TYPICAL PROPOSED SECTION

STH 57

STA 104+00 TO STA 105+65

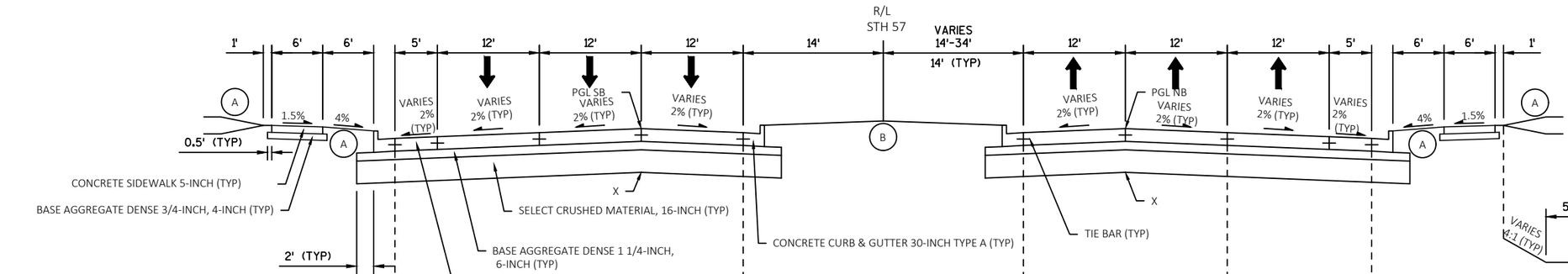
NOTES

PGL = POINT REFERRED TO ON PROFILE AND ROTATION POINT FOR SUPERELEVATION
X = POINT REFERRED TO ON CROSS-SECTION

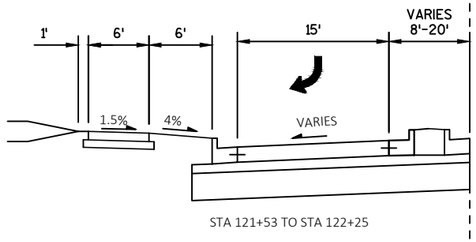
(A) 6" TOPSOIL, SEEDING MIXTURE NO. 40, FERTILIZER TYPE A, AND MULCH/EROSION MAT

(B) 6" TOPSOIL, SOD LAWN, AND FERTILIZER TYPE A

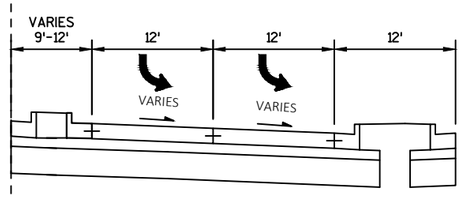
(C) 6" TOPSOIL, REFER TO LANDSCAPING PLAN FOR OTHER RESTORATION



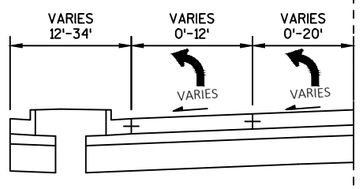
STA 126+34 TO STA 135+27



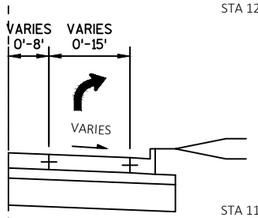
STA 121+53 TO STA 122+25



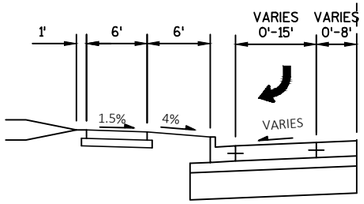
STA 121+51 TO STA 124+54



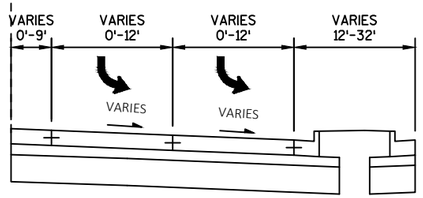
STA 114+99 TO STA 117+61



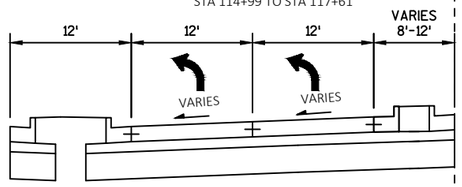
STA 115+94 TO STA 119+58



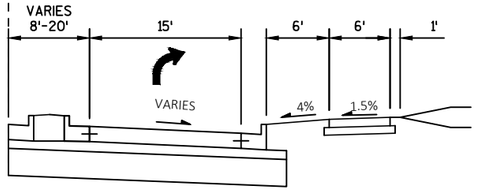
STA 122+25 TO STA 125+36



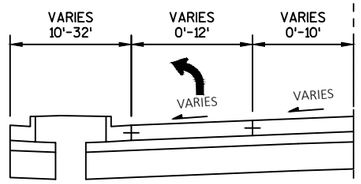
STA 124+54 TO STA 128+30



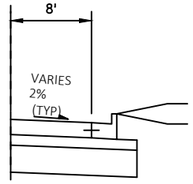
STA 117+61 TO STA 120+22



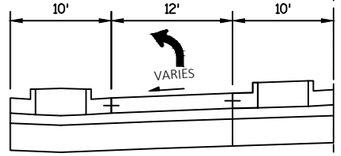
STA 119+58 TO STA 120+20



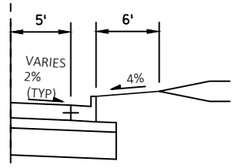
STA 133+33 TO STA 135+21



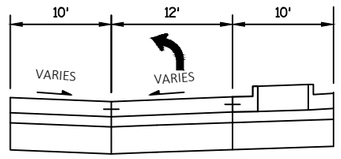
STA 105+65 TO STA 106+02



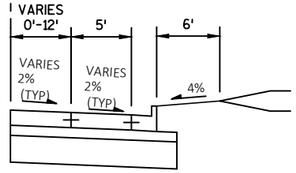
STA 135+21 TO STA 136+81



STA 106+02 TO STA 110+52



STA 136+81 TO STA 137+02



STA 110+52 TO STA 113+57

NOTES
PGL = POINT REFERRED TO ON PROFILE AND ROTATION POINT FOR SUPERELEVATION
X = POINT REFERRED TO ON CROSS-SECTION

(A) 6" TOPSOIL, SEEDING MIXTURE NO. 40, FERTILIZER TYPE A, AND MULCH/EROSION MAT

(B) 6" TOPSOIL, SOD LAWN, AND FERTILIZER TYPE A

(C) 6" TOPSOIL, REFER TO LANDSCAPING PLAN FOR OTHER RESTORATION

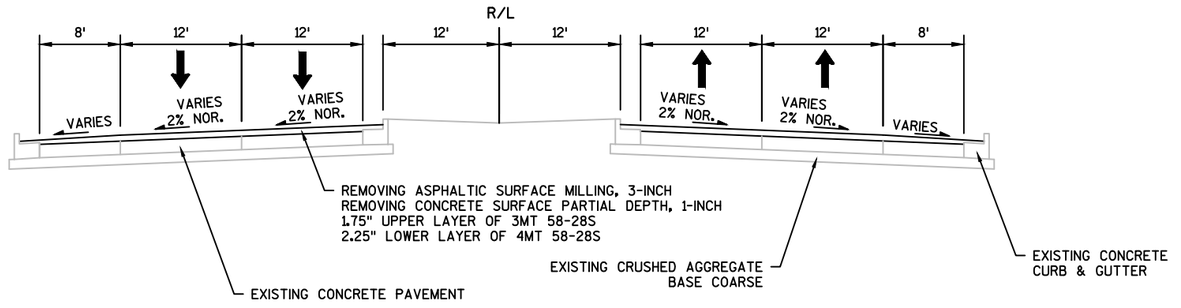
TYPICAL PROPOSED SECTION

STH 57

STA 105+65 TO STA 137+50

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	TYPICAL SECTIONS	SHEET 12	E

2



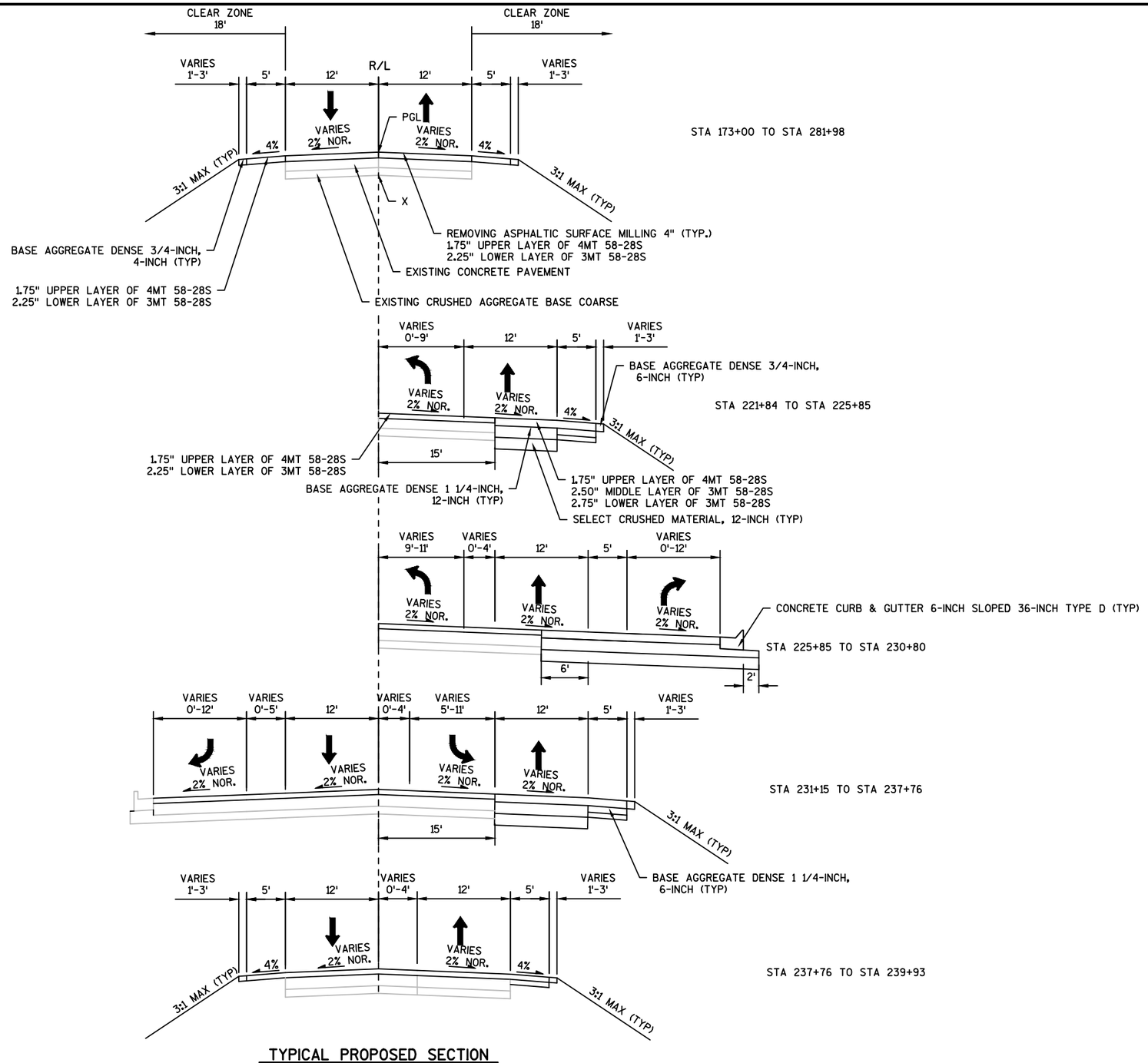
TYPICAL PROPOSED SECTION

STH 57

STA 137+50 TO STA 173+00

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	TYPICAL SECTIONS	SHEET 13	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\020401_TS.DWG
LAYOUT NAME - 020401
PLOT DATE : 4/6/2021 3:56 PM
PLOT BY : JOHNATHAN OLSON
PLOT NAME :
PLOT SCALE : 1:15
WISDOT/CADDS SHEET 42

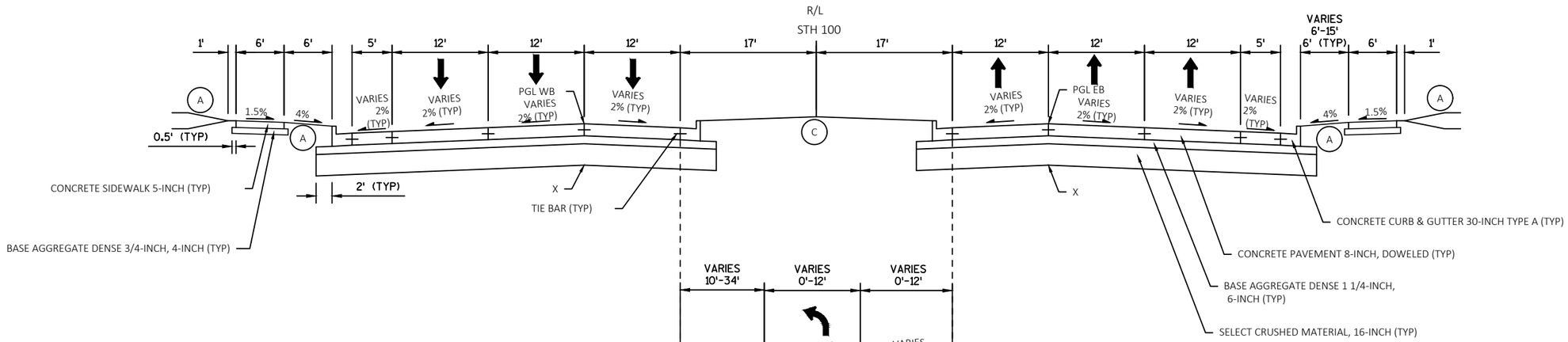


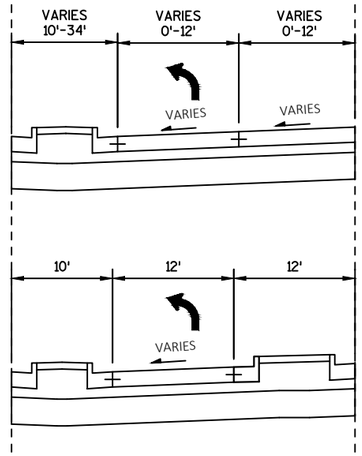
NOTES
X = POINT REFERRED TO ON CROSS-SECTION

TYPICAL PROPOSED SECTION
STH 57

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	TYPICAL SECTIONS	SHEET 14	E

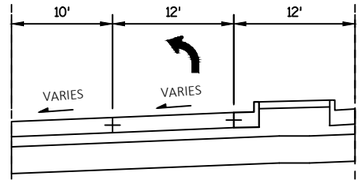
FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\020401_TS.DWG
LAYOUT NAME - 020402
PLOT DATE : 4/6/2021 3:56 PM PLOT BY : JOHNATHAN OLSON PLOT NAME : PLOT SCALE : 1:15



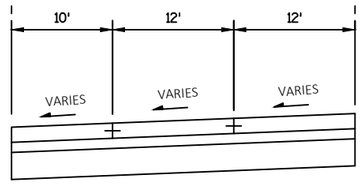


STA 483+11 TO STA 484+47

STA 484+47 TO STA 486+15



STA 486+15 TO STA 486+34



STA 486+34 TO STA 487+09

TYPICAL PROPOSED SECTION

STH 100

STA 481+98 TO STA 487+09

NOTES

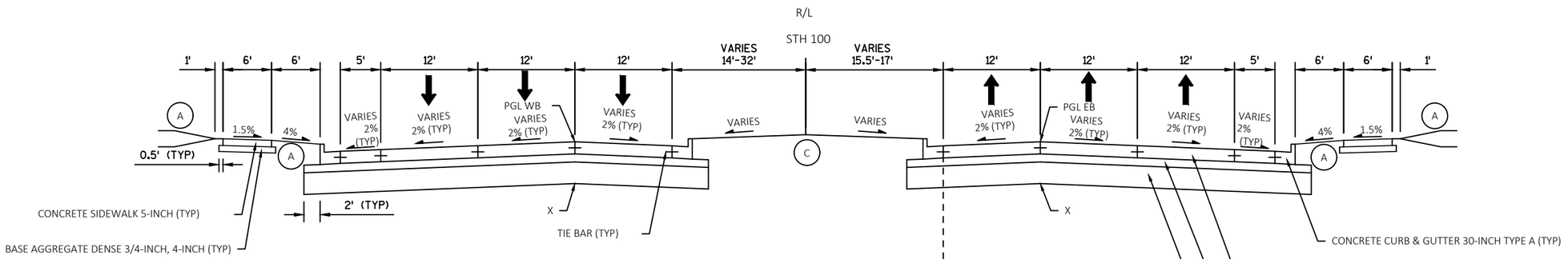
PGL = POINT REFERRED TO ON PROFILE AND ROTATION POINT FOR SUPERELEVATION
X = POINT REFERRED TO ON CROSS-SECTION

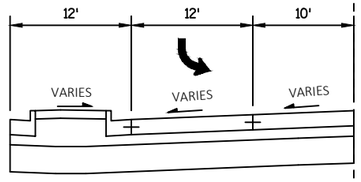
(A) 6" TOPSOIL, SEEDING MIXTURE NO. 40, FERTILIZER TYPE A, AND MULCH/EROSION MAT

(B) 6" TOPSOIL, SOD LAWN, AND FERTILIZER TYPE A

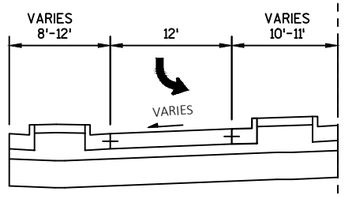
(C) 6" TOPSOIL, REFER TO LANDSCAPING PLAN FOR OTHER RESTORATION

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	TYPICAL SECTIONS	SHEET 15	E

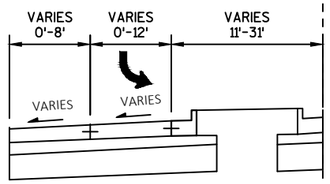




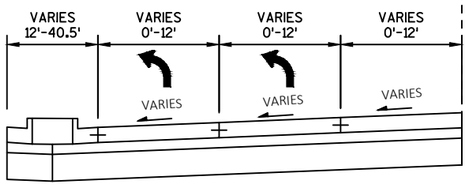
STA 487+09 TO STA 487+42



STA 487+42 TO STA 488+74



STA 488+74 TO STA 490+71



STA 492+67 TO STA 495+51

TYPICAL PROPOSED SECTION

STH 100

STA 487+09 TO STA 495+51

NOTES

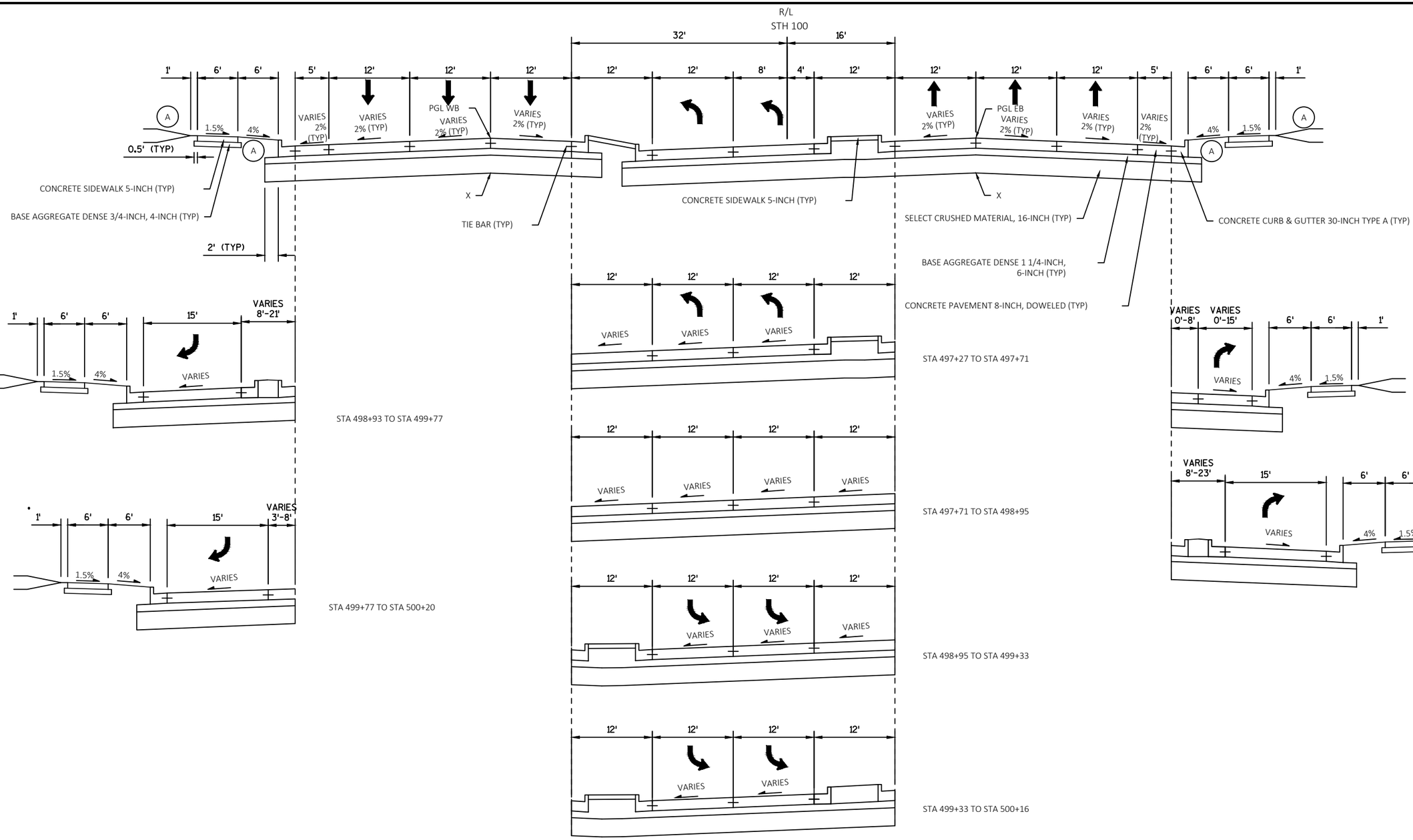
PGL = POINT REFERRED TO ON PROFILE AND ROTATION POINT FOR SUPERELEVATION
X = POINT REFERRED TO ON CROSS-SECTION

(A) 6" TOPSOIL, SEEDING MIXTURE NO. 40, FERTILIZER TYPE A, AND MULCH/EROSION MAT

(B) 6" TOPSOIL, SOD LAWN, AND FERTILIZER TYPE A

(C) 6" TOPSOIL, REFER TO LANDSCAPING PLAN FOR OTHER RESTORATION

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	TYPICAL SECTIONS	SHEET 16	E



NOTES
PGL = POINT REFERRED TO ON PROFILE AND ROTATION POINT FOR SUPERELEVATION
X = POINT REFERRED TO ON CROSS-SECTION

(A) 6" TOPSOIL, SEEDING MIXTURE NO. 40, FERTILIZER TYPE A, AND MULCH/EROSION MAT

(B) 6" TOPSOIL, SOD LAWN, AND FERTILIZER TYPE A

(C) 6" TOPSOIL, REFER TO LANDSCAPING PLAN FOR OTHER RESTORATION

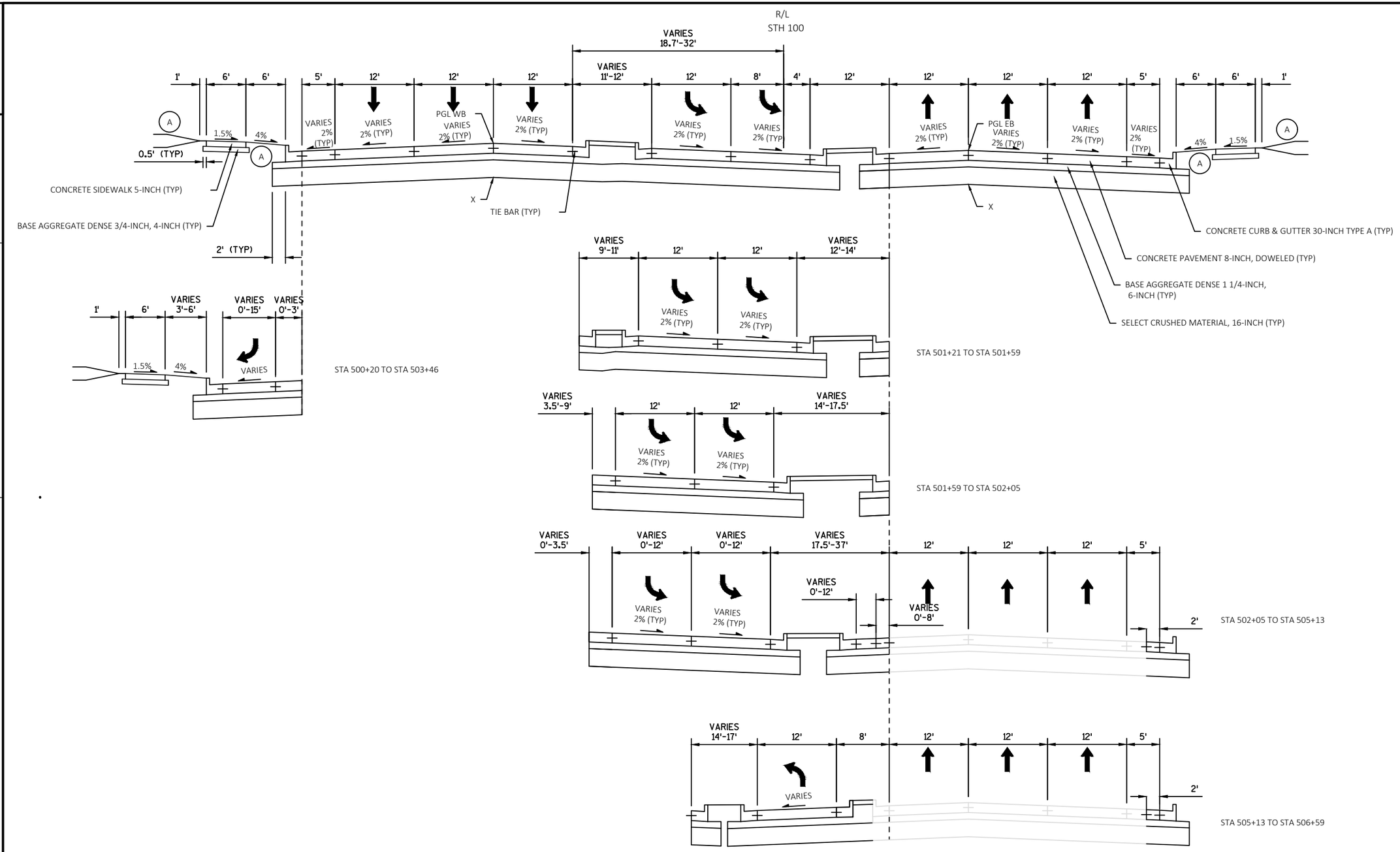
TYPICAL PROPOSED SECTION

STH 100

STA 495+51 TO STA 500+20

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	TYPICAL SECTIONS	SHEET 17	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\020401_TS.DWG
LAYOUT NAME - 020401_TS - 020406
PLOT DATE : 4/13/2021 9:30 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1:15
WISDOT/CADDS SHEET 42



NOTES
PGL = POINT REFERRED TO ON PROFILE AND ROTATION POINT FOR SUPERELEVATION
X = POINT REFERRED TO ON CROSS-SECTION

(A) 6" TOPSOIL, SEEDING MIXTURE NO. 40, FERTILIZER TYPE A, AND MULCH/EROSION MAT

(B) 6" TOPSOIL, SOD LAWN, AND FERTILIZER TYPE A

(C) 6" TOPSOIL, REFER TO LANDSCAPING PLAN FOR OTHER RESTORATION

TYPICAL PROPOSED SECTION

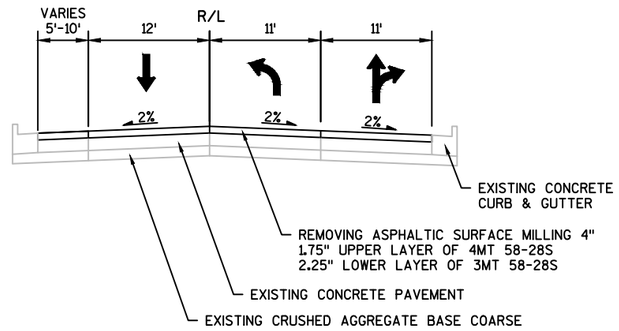
STH 100

STA 500+20 TO STA 506+59

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	TYPICAL SECTIONS	SHEET 18	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\020401_TS.DWG
LAYOUT NAME - 020401_TS - 020407
PLOT DATE : 4/13/2021 9:30 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1:15
WISDOT/CADDS SHEET 42

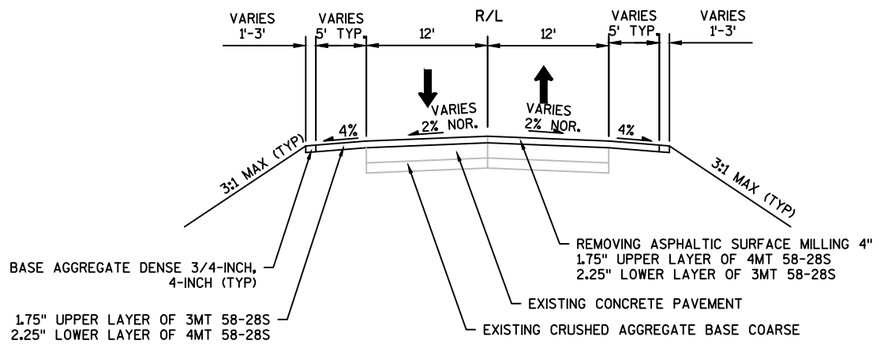
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TYPICAL PROPOSED SECTION

DONGES BAY ROAD

STA 48+20 TO STA 51+25

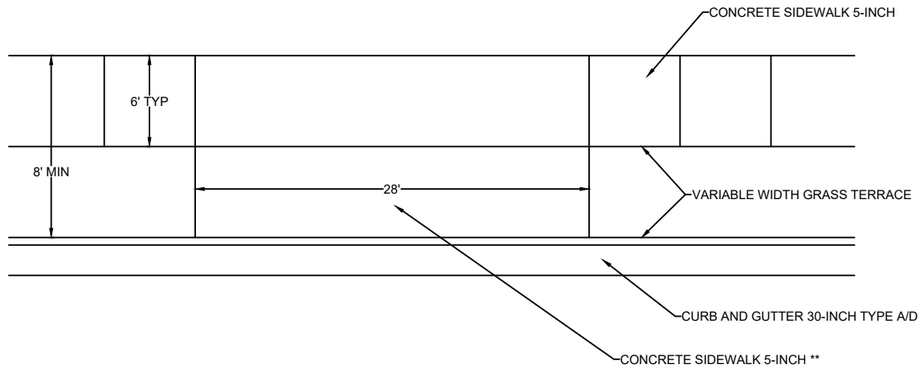


TYPICAL PROPOSED SECTION

DONGES BAY ROAD

STA 46+64 TO 48+20
STA 51+25 TO 52+57

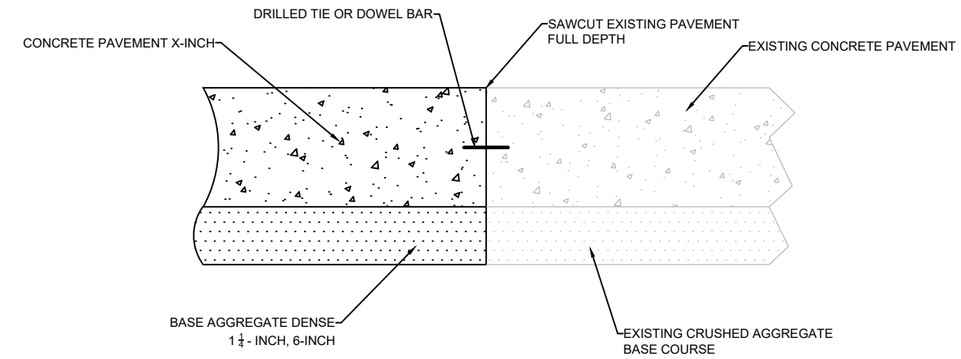
PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	TYPICAL SECTIONS	SHEET 19	E



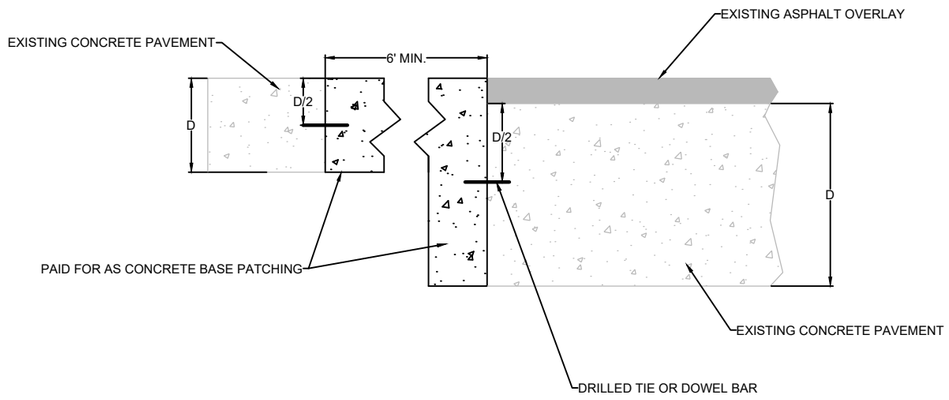
* SEE PLAN DETAILS FOR DIMENSION
** CONCRETE SIDEWALK 5-INCH REQUIRED

NOTES
1. MAXIMUM SLOPE OF BUS STOP SHALL BE 1.5%
2. NON SLIP SURFACE REQUIRED (BROOM FINISH)

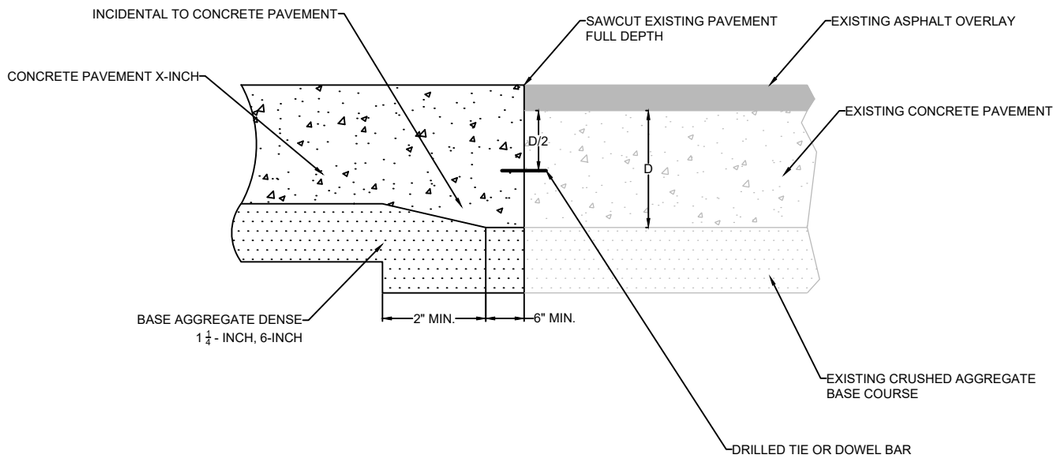
DETAIL OF ADA BUS STOP PAD



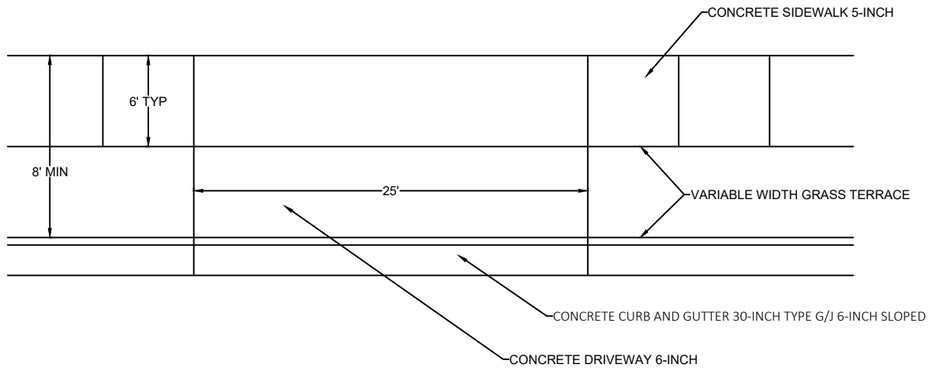
MATCH AT EXISTING CONCRETE PAVEMENT



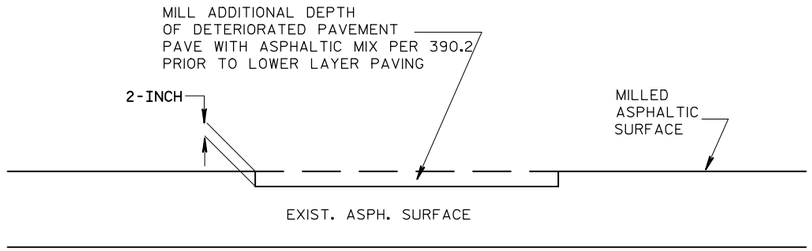
BASE PATCHING TYPICAL HALF SECTIONS



MATCH AT EXISTING CONCRETE PAVEMENT WITH ASPHALT OVERLAY

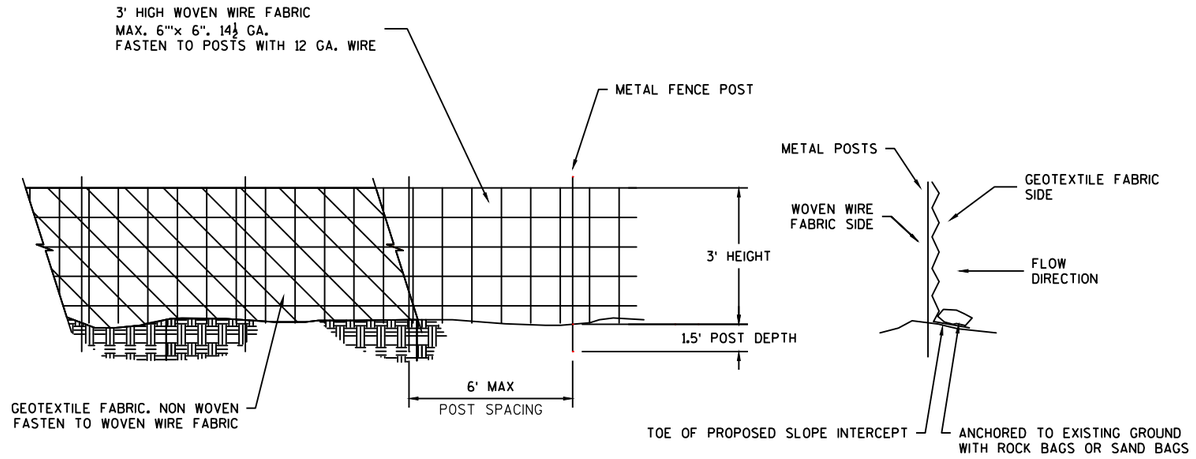


DETAIL OF TRAFFIC SIGNAL VEHICLE PAD



BASE PATCHING ASPHALTIC

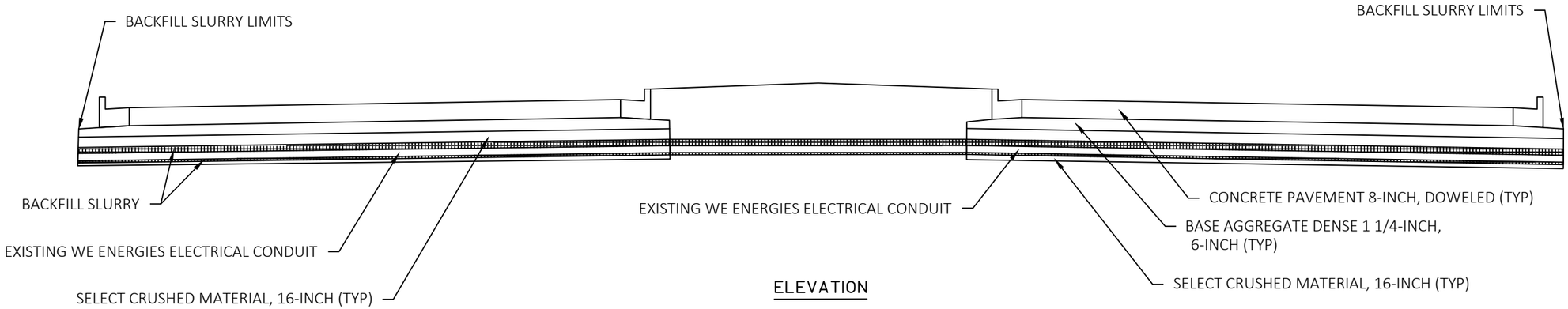
LOCATIONS AS DIRECTED BY ENGINEER



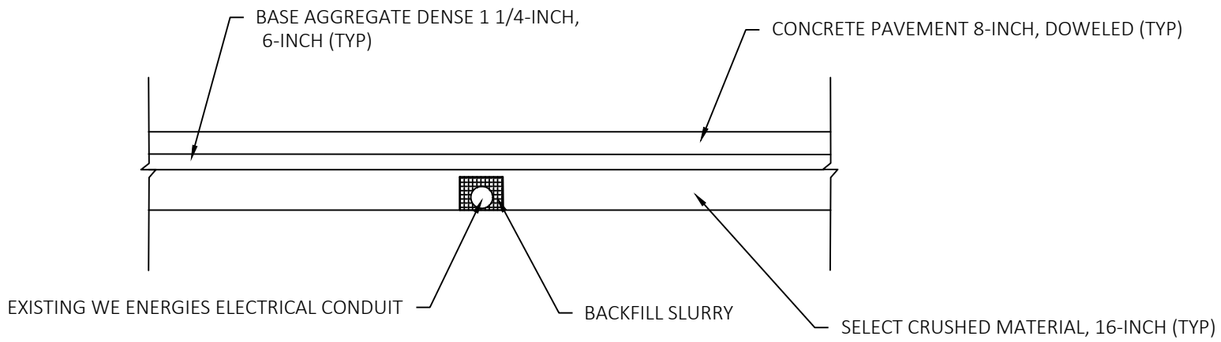
HEAVY DUTY SILT FENCE DETAIL

INSTALL AS NECESSARY AS SHOWN IN THE PLANS
AND DIRECTED BY THE ENGINEER

2



ELEVATION

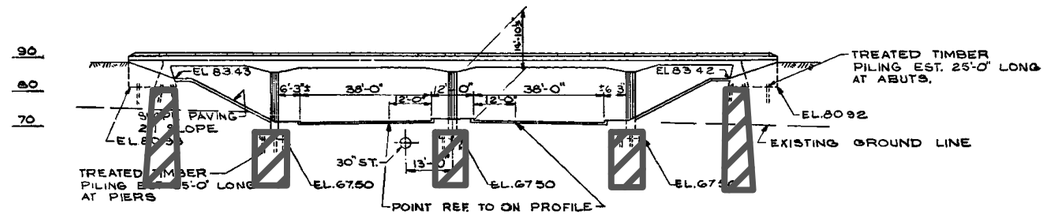


CROSS SECTION

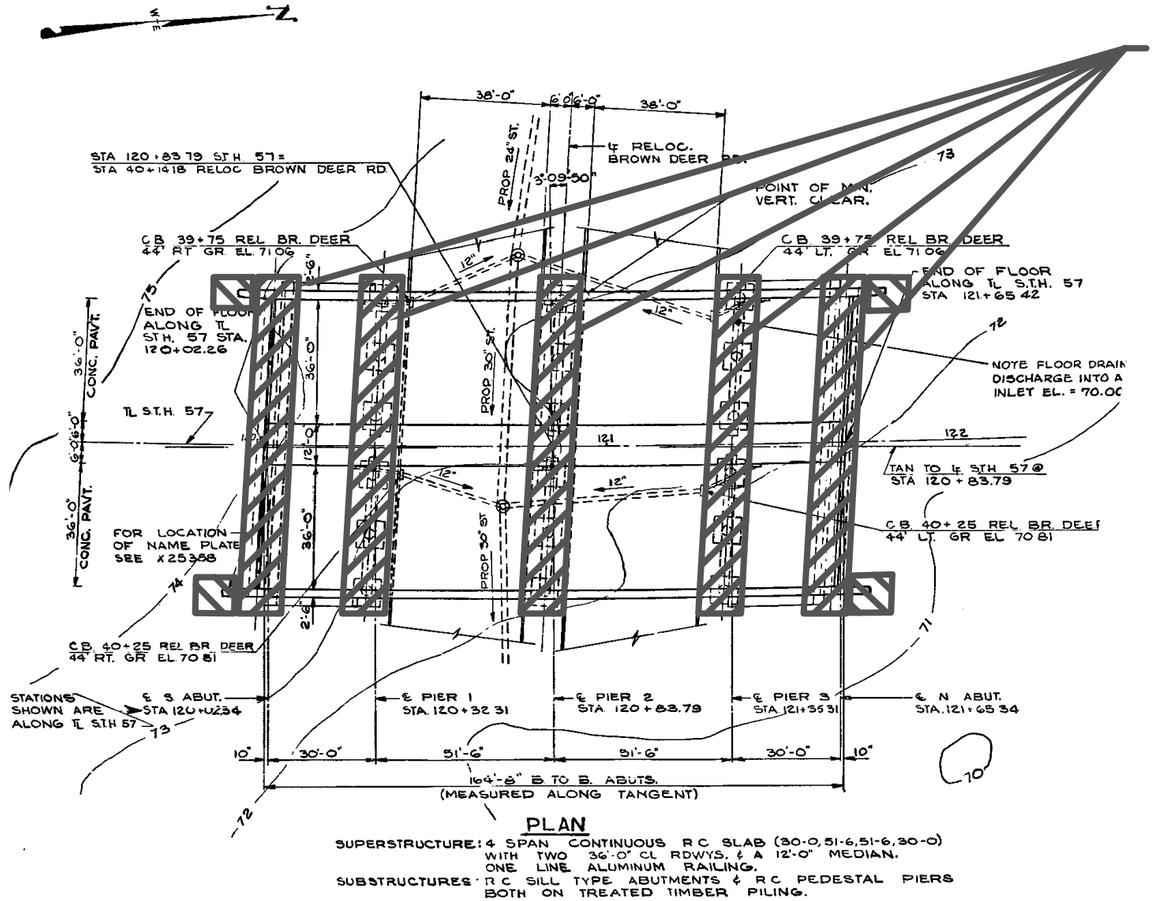
BACKFILL SLURRY DETAILS

WE ENERGIES EXISTING CONDUIT LOCATIONS: STA 487+15 & STA 487+25

2



ELEVATION
(AT RT. ANGLES TO ℄ RELOC. BROWN DEER RD)



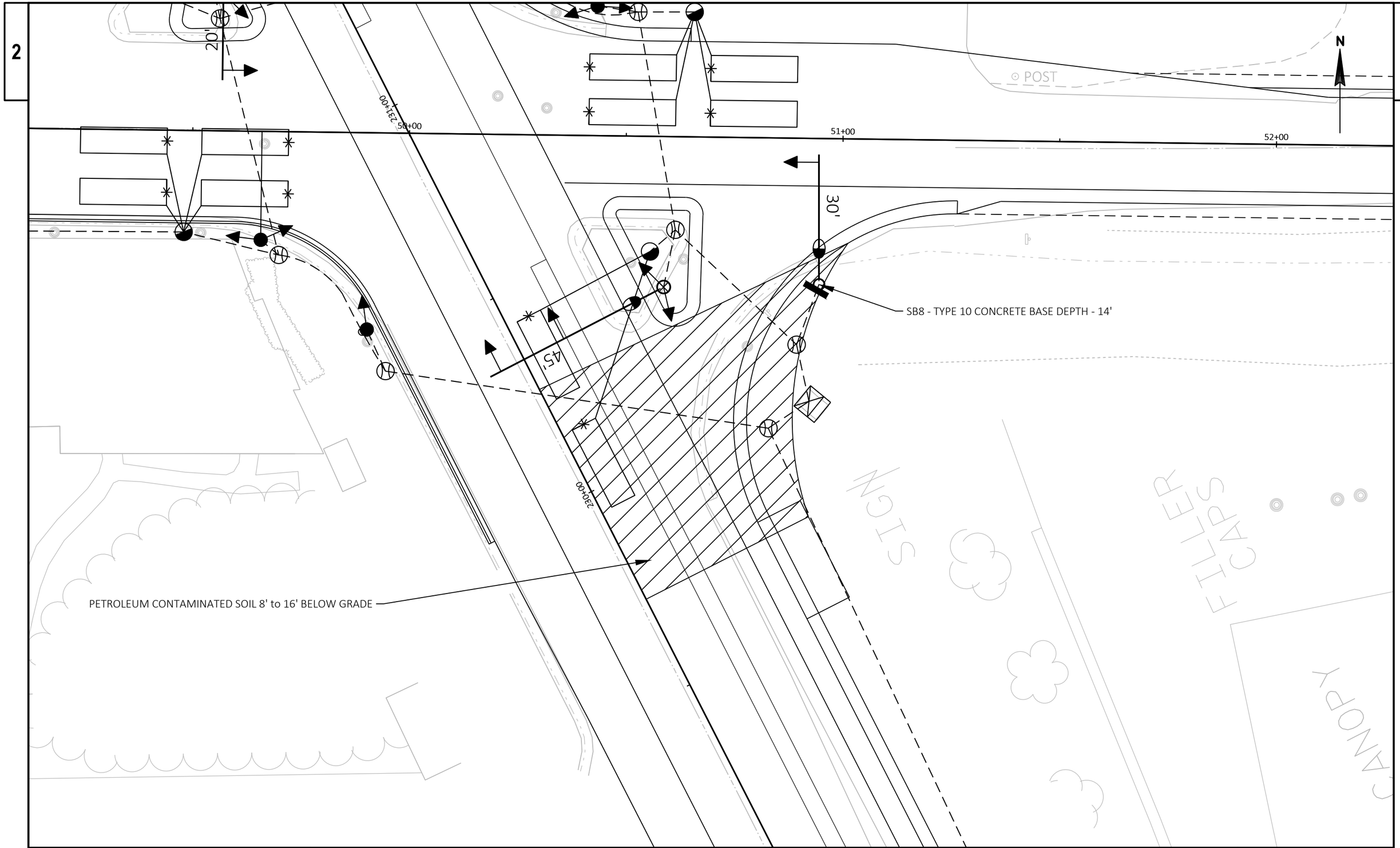
PLAN

SUPERSTRUCTURE: 4 SPAN CONTINUOUS R C SLAB (30-0, 51-6, 51-6, 30-0) WITH TWO 36'-0" CL RDWYS. & A 12'-0" MEDIAN. ONE LINE ALUMINUM RAILING.

SUBSTRUCTURES: R C SILL TYPE ABUTMENTS & R C PEDESTAL PIERS BOTH ON TREATED TIMBER PILING.

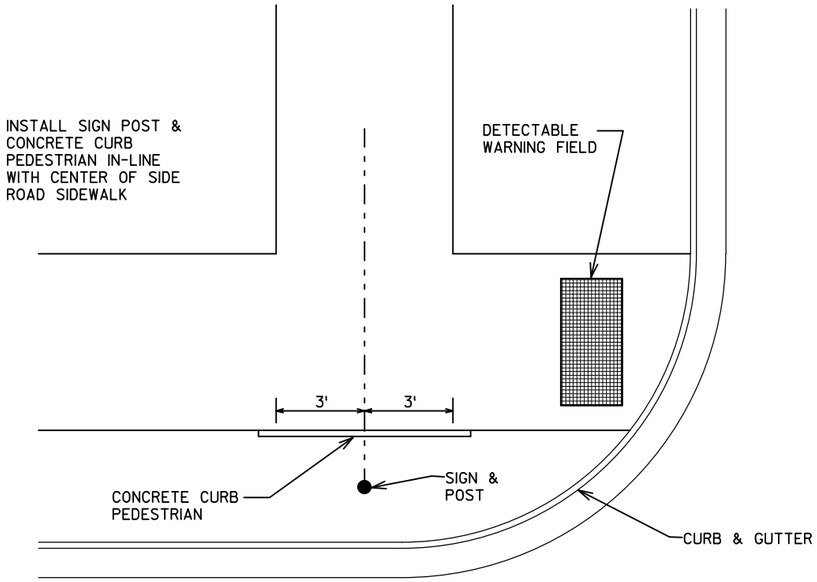
SOIL LOCATED WITHIN THIS FOOTPRINT BELOW THE BOTTOM OF EXISTING PILECAPS TO THE TERMINAL DEPTH OF THE EXISTING PILE SHOULD BE CONSIDERED CONTAMINATED.
SEE SPV.0195.0001 EXCAVATION,HAULING AND DISPOSAL OF CREOSOTE CONTAMINATED SOIL.

2

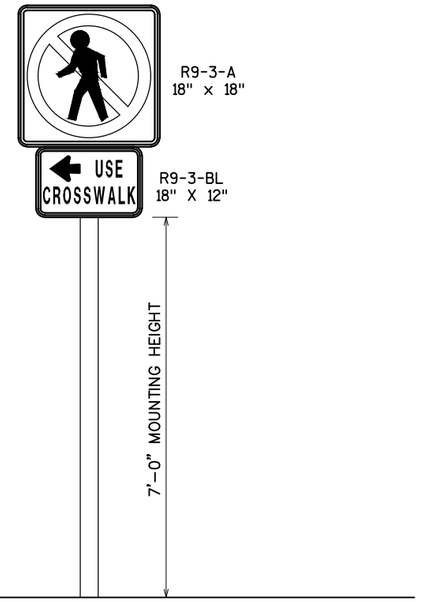


PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION DETAILS - HAZMAT	SHEET 24	E

2



CURB AND SIGN LOCATION DETAIL

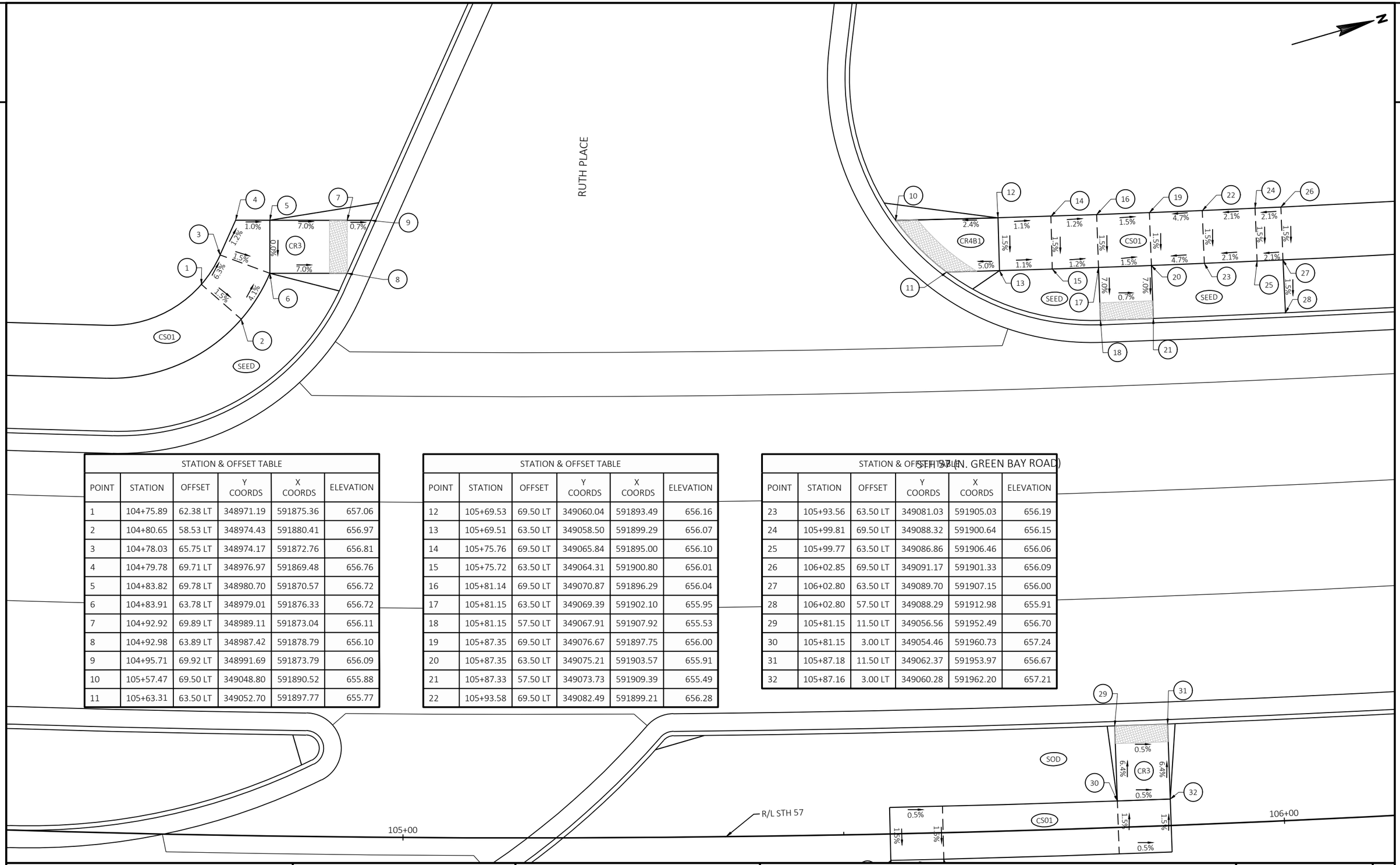


CONCRETE CURB PEDESTRIAN DETAIL
CURB ELEVATION VIEW

PEDESTRIAN BARRIER DETAIL
NOT TO SCALE

PROJECT NO:2270-04-70	HWY:STH 57	COUNTY:MILWAUKEE	CONSTRUCTION DETAILS - PEDESTRIAN SIGN TYPICAL	SHEET 25	E

FILE NAME : N:\PDS\C3D\CAD\22700400\SIGN\023401_CD_PEDSIGN.DWG
LAYOUT NAME - 023401_PS
PLOT DATE : 2/4/2021 6:59 AM
PLOT BY : VANDE LEEST, CYNTHIAPLOT NAME :
PLOT SCALE : NOT TO SCALE
WISDOT/CADDS SHEET 42



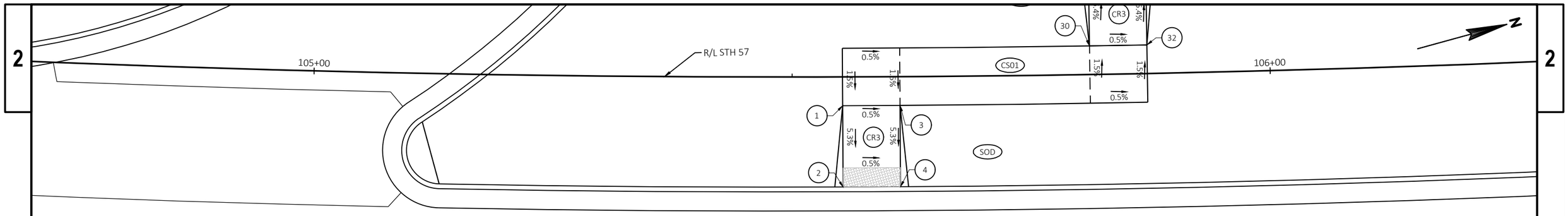
STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
1	104+75.89	62.38 LT	348971.19	591875.36	657.06
2	104+80.65	58.53 LT	348974.43	591880.41	656.97
3	104+78.03	65.75 LT	348974.17	591872.76	656.81
4	104+79.78	69.71 LT	348976.97	591869.48	656.76
5	104+83.82	69.78 LT	348980.70	591870.57	656.72
6	104+83.91	63.78 LT	348979.01	591876.33	656.72
7	104+92.92	69.89 LT	348989.11	591873.04	656.11
8	104+92.98	63.89 LT	348987.42	591878.79	656.10
9	104+95.71	69.92 LT	348991.69	591873.79	656.09
10	105+57.47	69.50 LT	349048.80	591890.52	655.88
11	105+63.31	63.50 LT	349052.70	591897.77	655.77

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
12	105+69.53	69.50 LT	349060.04	591893.49	656.16
13	105+69.51	63.50 LT	349058.50	591899.29	656.07
14	105+75.76	69.50 LT	349065.84	591895.00	656.10
15	105+75.72	63.50 LT	349064.31	591900.80	656.01
16	105+81.14	69.50 LT	349070.87	591896.29	656.04
17	105+81.15	63.50 LT	349069.39	591902.10	655.95
18	105+81.15	57.50 LT	349067.91	591907.92	655.53
19	105+87.35	69.50 LT	349076.67	591897.75	656.00
20	105+87.35	63.50 LT	349075.21	591903.57	655.91
21	105+87.33	57.50 LT	349073.73	591909.39	655.49
22	105+93.58	69.50 LT	349082.49	591899.21	656.28

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
23	105+93.56	63.50 LT	349081.03	591905.03	656.19
24	105+99.81	69.50 LT	349088.32	591900.64	656.15
25	105+99.77	63.50 LT	349086.86	591906.46	656.06
26	106+02.85	69.50 LT	349091.17	591901.33	656.09
27	106+02.80	63.50 LT	349089.70	591907.15	656.00
28	106+02.80	57.50 LT	349088.29	591912.98	655.91
29	105+81.15	11.50 LT	349056.56	591952.49	656.70
30	105+81.15	3.00 LT	349054.46	591960.73	657.24
31	105+87.18	11.50 LT	349062.37	591953.97	656.67
32	105+87.16	3.00 LT	349060.28	591962.20	657.21

STH 57 (N. GREEN BAY ROAD)

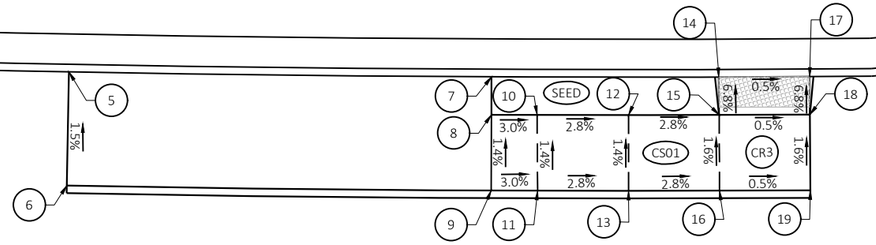
PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CURB RAMP DETAILS	SHEET 26	E



STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
1	105+55.27	3.00 RT	349027.91	591959.98	657.40
2	105+55.30	11.50 RT	349025.73	591968.20	656.95
3	105+61.27	3.00 RT	349033.71	591961.53	657.37
4	105+61.27	11.50 RT	349031.53	591969.75	656.92
5	105+13.59	48.50 RT	348974.94	591992.36	658.21
6	105+13.59	56.00 RT	348972.83	591999.56	658.32
7	105+40.79	48.50 RT	349001.76	592000.00	658.07
8	105+40.79	51.00 RT	349001.09	592002.41	658.11
9	105+40.81	56.00 RT	348999.77	592007.24	658.18
10	105+43.73	51.00 RT	349004.01	592003.22	658.02

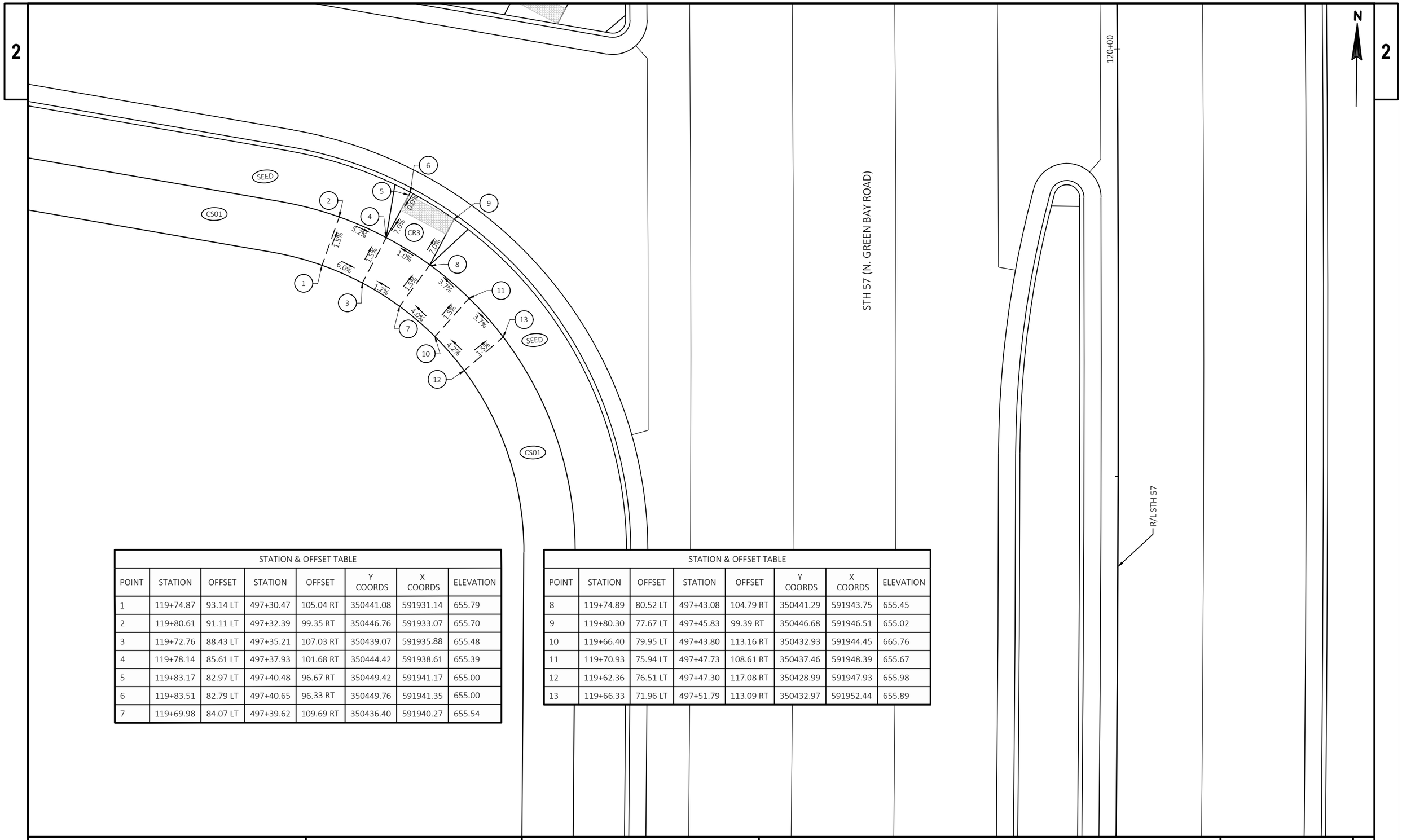
STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
11	105+43.78	56.00 RT	349002.72	592008.05	658.09
12	105+49.61	51.00 RT	349009.82	592004.81	657.85
13	105+49.61	56.00 RT	349008.51	592009.64	657.92
14	105+55.42	48.50 RT	349016.23	592003.96	657.51
15	105+55.44	51.00 RT	349015.60	592006.38	657.68
16	105+55.44	56.00 RT	349014.30	592011.20	657.76
17	105+61.27	48.50 RT	349022.03	592005.51	657.48
18	105+61.27	51.00 RT	349021.38	592007.92	657.65
19	105+61.27	56.00 RT	349020.10	592012.75	657.73

STH 57 (N. GREEN BAY ROAD)



PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CURB RAMP DETAILS	SHEET 27	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\021101_ID.DWG
LAYOUT NAME - 021102
PLOT DATE : 3/19/2021 5:03 PM
PLOT BY : TONY BUBLITZ
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42



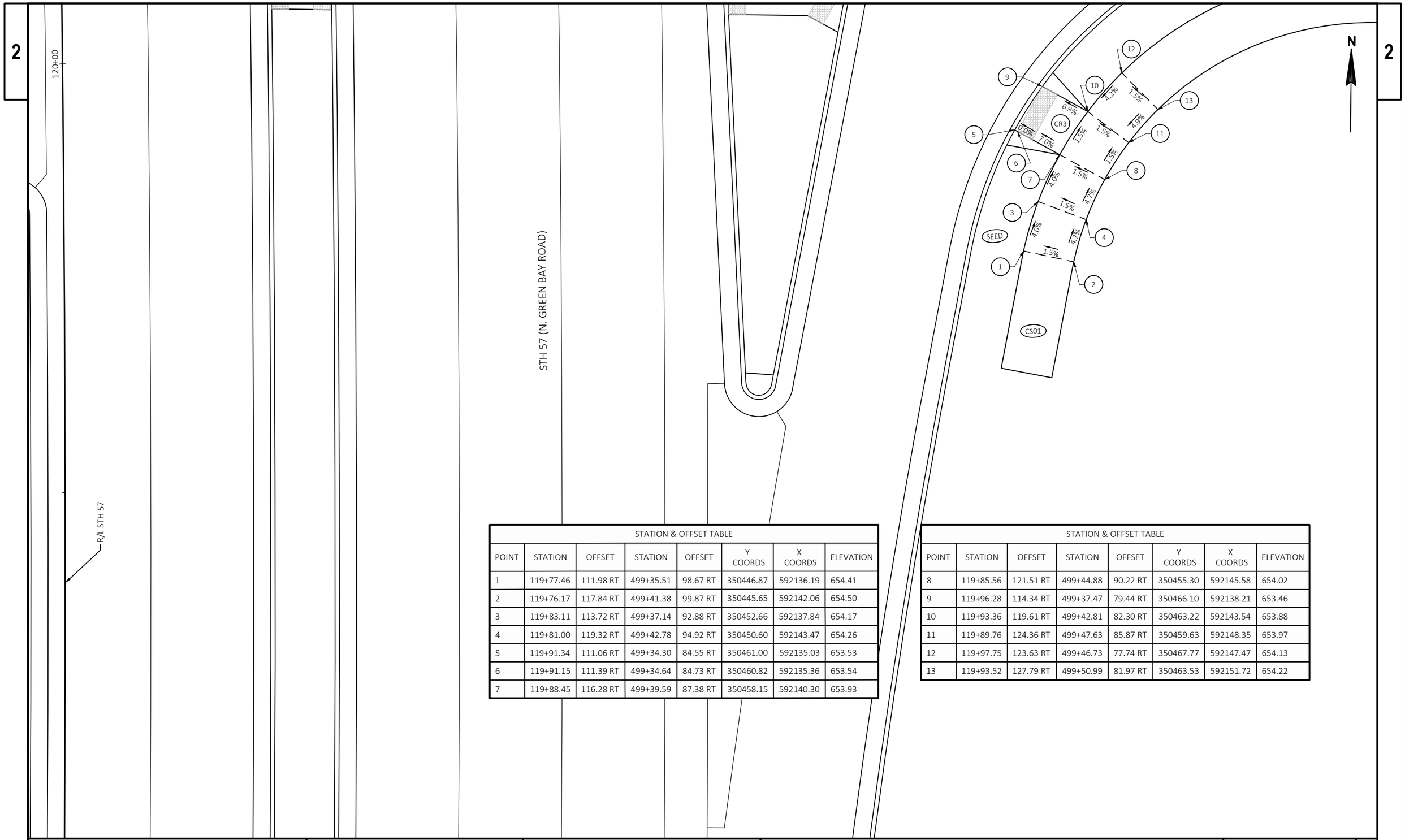
STATION & OFFSET TABLE

POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
1	119+74.87	93.14 LT	497+30.47	105.04 RT	350441.08	591931.14	655.79
2	119+80.61	91.11 LT	497+32.39	99.35 RT	350446.76	591933.07	655.70
3	119+72.76	88.43 LT	497+35.21	107.03 RT	350439.07	591935.88	655.48
4	119+78.14	85.61 LT	497+37.93	101.68 RT	350444.42	591938.61	655.39
5	119+83.17	82.97 LT	497+40.48	96.67 RT	350449.42	591941.17	655.00
6	119+83.51	82.79 LT	497+40.65	96.33 RT	350449.76	591941.35	655.00
7	119+69.98	84.07 LT	497+39.62	109.69 RT	350436.40	591940.27	655.54

STATION & OFFSET TABLE

POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
8	119+74.89	80.52 LT	497+43.08	104.79 RT	350441.29	591943.75	655.45
9	119+80.30	77.67 LT	497+45.83	99.39 RT	350446.68	591946.51	655.02
10	119+66.40	79.95 LT	497+43.80	113.16 RT	350432.93	591944.45	665.76
11	119+70.93	75.94 LT	497+47.73	108.61 RT	350437.46	591948.39	655.67
12	119+62.36	76.51 LT	497+47.30	117.08 RT	350428.99	591947.93	655.98
13	119+66.33	71.96 LT	497+51.79	113.09 RT	350432.97	591952.44	655.89

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CURB RAMP DETAILS	SHEET 28	E



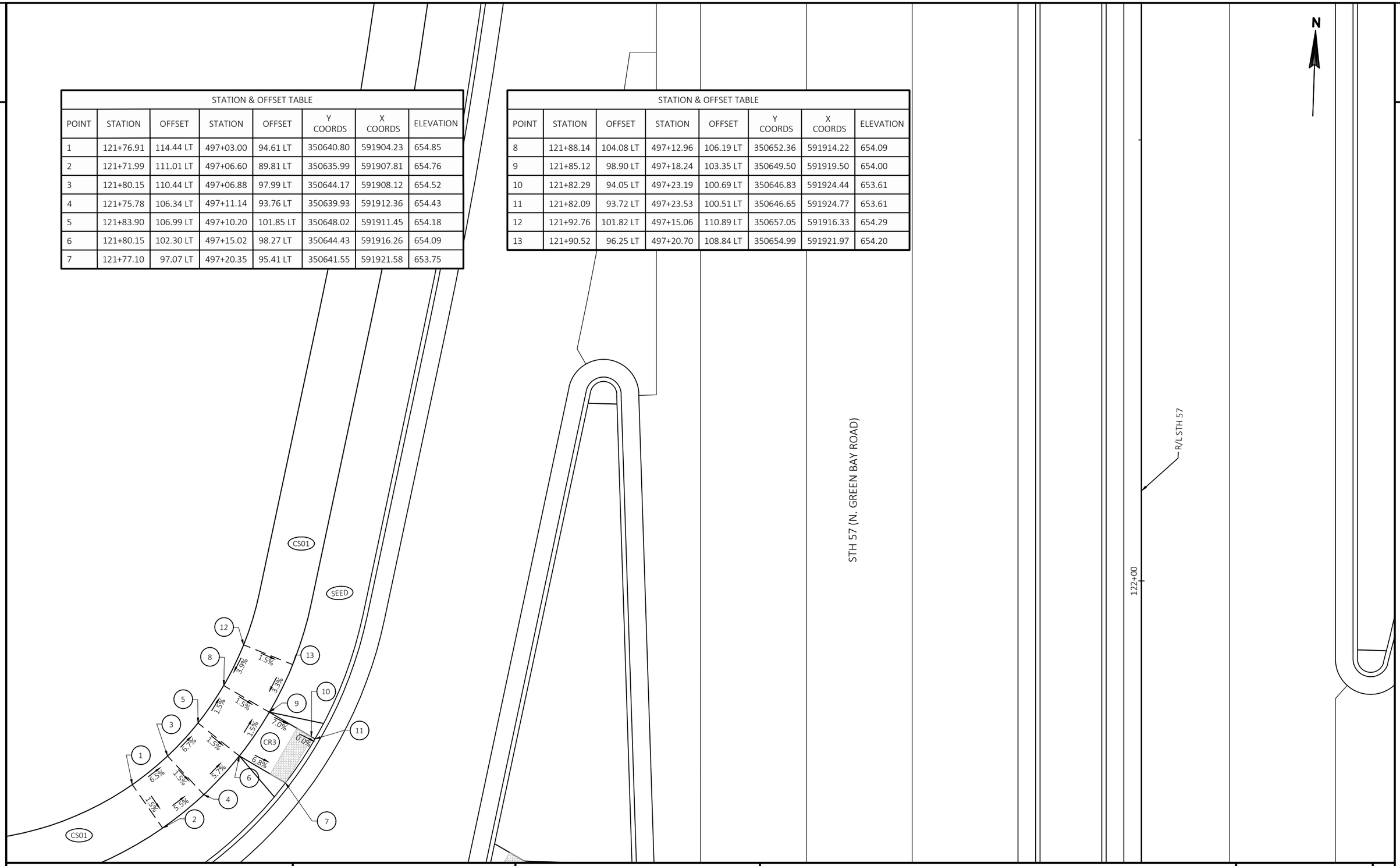
STATION & OFFSET TABLE							
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
1	119+77.46	111.98 RT	499+35.51	98.67 RT	350446.87	592136.19	654.41
2	119+76.17	117.84 RT	499+41.38	99.87 RT	350445.65	592142.06	654.50
3	119+83.11	113.72 RT	499+37.14	92.88 RT	350452.66	592137.84	654.17
4	119+81.00	119.32 RT	499+42.78	94.92 RT	350450.60	592143.47	654.26
5	119+91.34	111.06 RT	499+34.30	84.55 RT	350461.00	592135.03	653.53
6	119+91.15	111.39 RT	499+34.64	84.73 RT	350460.82	592135.36	653.54
7	119+88.45	116.28 RT	499+39.59	87.38 RT	350458.15	592140.30	653.93

STATION & OFFSET TABLE							
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
8	119+85.56	121.51 RT	499+44.88	90.22 RT	350455.30	592145.58	654.02
9	119+96.28	114.34 RT	499+37.47	79.44 RT	350466.10	592138.21	653.46
10	119+93.36	119.61 RT	499+42.81	82.30 RT	350463.22	592143.54	653.88
11	119+89.76	124.36 RT	499+47.63	85.87 RT	350459.63	592148.35	653.97
12	119+97.75	123.63 RT	499+46.73	77.74 RT	350467.77	592147.47	654.13
13	119+93.52	127.79 RT	499+50.99	81.97 RT	350463.53	592151.72	654.22

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CURB RAMP DETAILS	SHEET 29	E

STATION & OFFSET TABLE							
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
1	121+76.91	114.44 LT	497+03.00	94.61 LT	350640.80	591904.23	654.85
2	121+71.99	111.01 LT	497+06.60	89.81 LT	350635.99	591907.81	654.76
3	121+80.15	110.44 LT	497+06.88	97.99 LT	350644.17	591908.12	654.52
4	121+75.78	106.34 LT	497+11.14	93.76 LT	350639.93	591912.36	654.43
5	121+83.90	106.99 LT	497+10.20	101.85 LT	350648.02	591911.45	654.18
6	121+80.15	102.30 LT	497+15.02	98.27 LT	350644.43	591916.26	654.09
7	121+77.10	97.07 LT	497+20.35	95.41 LT	350641.55	591921.58	653.75

STATION & OFFSET TABLE							
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
8	121+88.14	104.08 LT	497+12.96	106.19 LT	350652.36	591914.22	654.09
9	121+85.12	98.90 LT	497+18.24	103.35 LT	350649.50	591919.50	654.00
10	121+82.29	94.05 LT	497+23.19	100.69 LT	350646.83	591924.44	653.61
11	121+82.09	93.72 LT	497+23.53	100.51 LT	350646.65	591924.77	653.61
12	121+92.76	101.82 LT	497+15.06	110.89 LT	350657.05	591916.33	654.29
13	121+90.52	96.25 LT	497+20.70	108.84 LT	350654.99	591921.97	654.20



PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CURB RAMP DETAILS	SHEET 30	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\021101_ID.DWG
LAYOUT NAME - 021105

PLOT DATE : 3/19/2021 5:03 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 42

2

N

STATION & OFFSET TABLE							
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
1	122+01.59	99.96 RT	499+16.40	126.76 LT	350672.35	592117.72	652.78
2	121+97.34	95.72 RT	499+12.32	122.36 LT	350667.97	592113.63	652.69
3	121+98.24	103.86 RT	499+20.42	123.54 LT	350669.12	592121.73	652.43
4	121+93.42	100.28 RT	499+17.01	118.60 LT	350664.19	592118.31	652.34
5	121+88.08	97.42 RT	499+14.34	113.17 LT	350658.77	592115.62	651.92
6	121+95.48	108.20 RT	499+24.86	120.93 LT	350666.51	592126.16	652.37

STATION & OFFSET TABLE							
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
7	121+90.19	105.36 RT	499+22.20	115.55 LT	350661.13	592123.49	652.28
8	121+85.24	102.70 RT	499+19.72	110.51 LT	350656.10	592120.99	651.89
9	121+84.91	102.52 RT	499+19.55	110.17 LT	350655.76	592120.82	651.88
10	121+93.38	112.90 RT	499+29.62	119.00 LT	350664.56	592130.92	652.67
11	121+87.74	110.85 RT	499+27.78	113.29 LT	350658.85	592129.06	652.58

R/L STH 57

122+00

STH 57 (N. GREEN BAY ROAD)

CS01

SEED

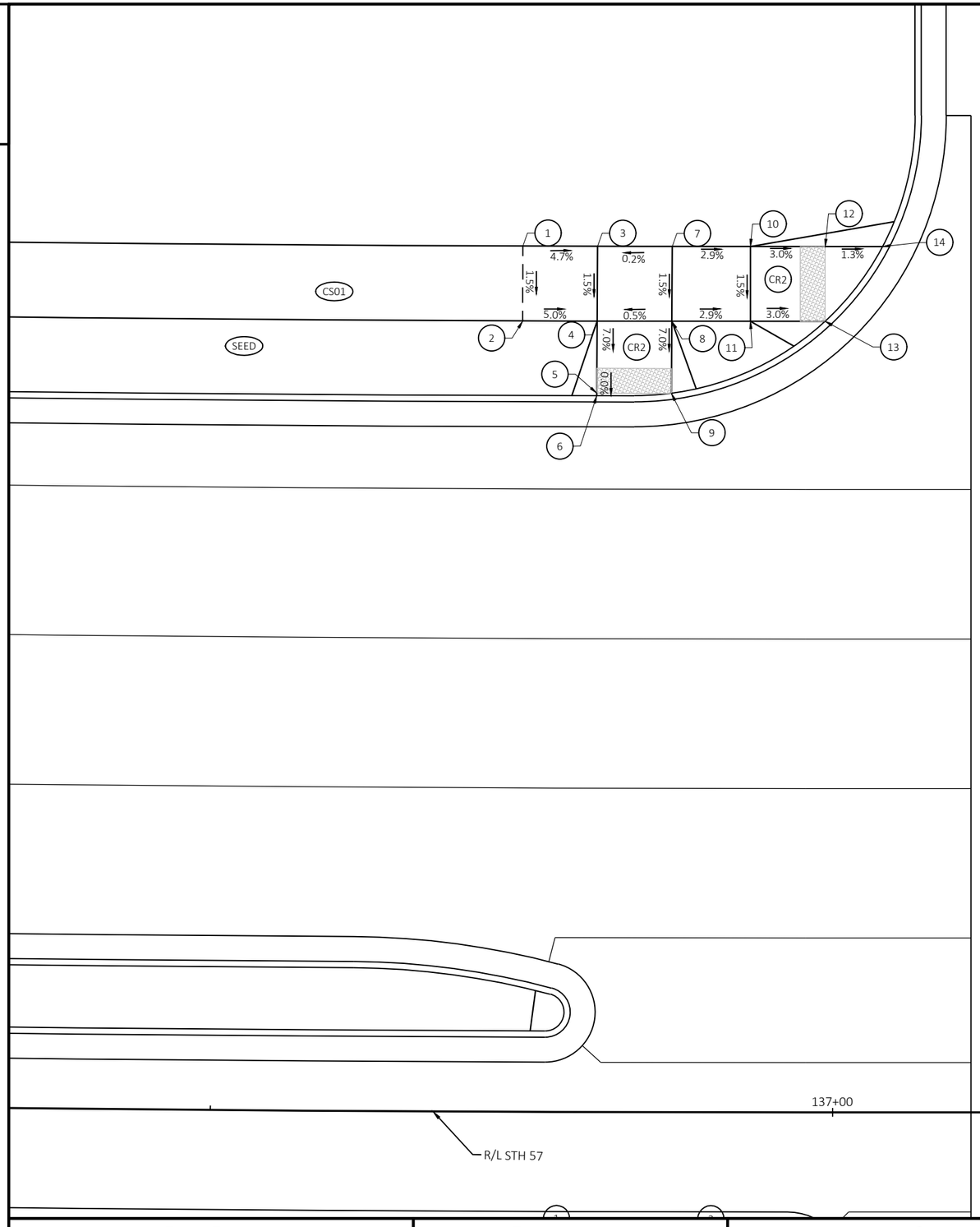
1.5%
6.8%
5.8%
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1.5%
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1.5%
1.0%
6.9%
7.0%
5.0%
6.0%
1.5%

CR3

CS01

SEED

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CURB RAMP DETAILS	SHEET 31	E



STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
1	136+74.84	69.50 LT	352044.13	591551.13	654.90
2	136+74.84	63.50 LT	352046.65	591556.57	654.81
3	136+80.91	69.50 LT	352049.57	591548.61	654.62
4	136+80.89	63.50 LT	352052.08	591554.06	654.51
5	136+80.88	57.72 LT	352054.50	591559.31	654.11
6	136+80.88	57.50 LT	352054.60	591559.50	654.10
7	136+86.98	69.50 LT	352055.01	591546.08	654.63

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
8	136+86.96	63.50 LT	352057.53	591551.53	654.54
9	136+86.94	57.70 LT	352059.95	591556.80	654.13
10	136+93.34	69.50 LT	352060.71	591543.43	654.45
11	136+93.34	63.50 LT	352063.25	591548.86	654.36
12	136+99.39	69.50 LT	352066.15	591540.89	654.27
13	136+99.39	63.50 LT	352068.69	591546.32	654.18
14	137+04.00	69.50 LT	352070.33	591538.93	654.21

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CURB RAMP DETAILS	SHEET 32	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\021101_ID.DWG
LAYOUT NAME - 021107

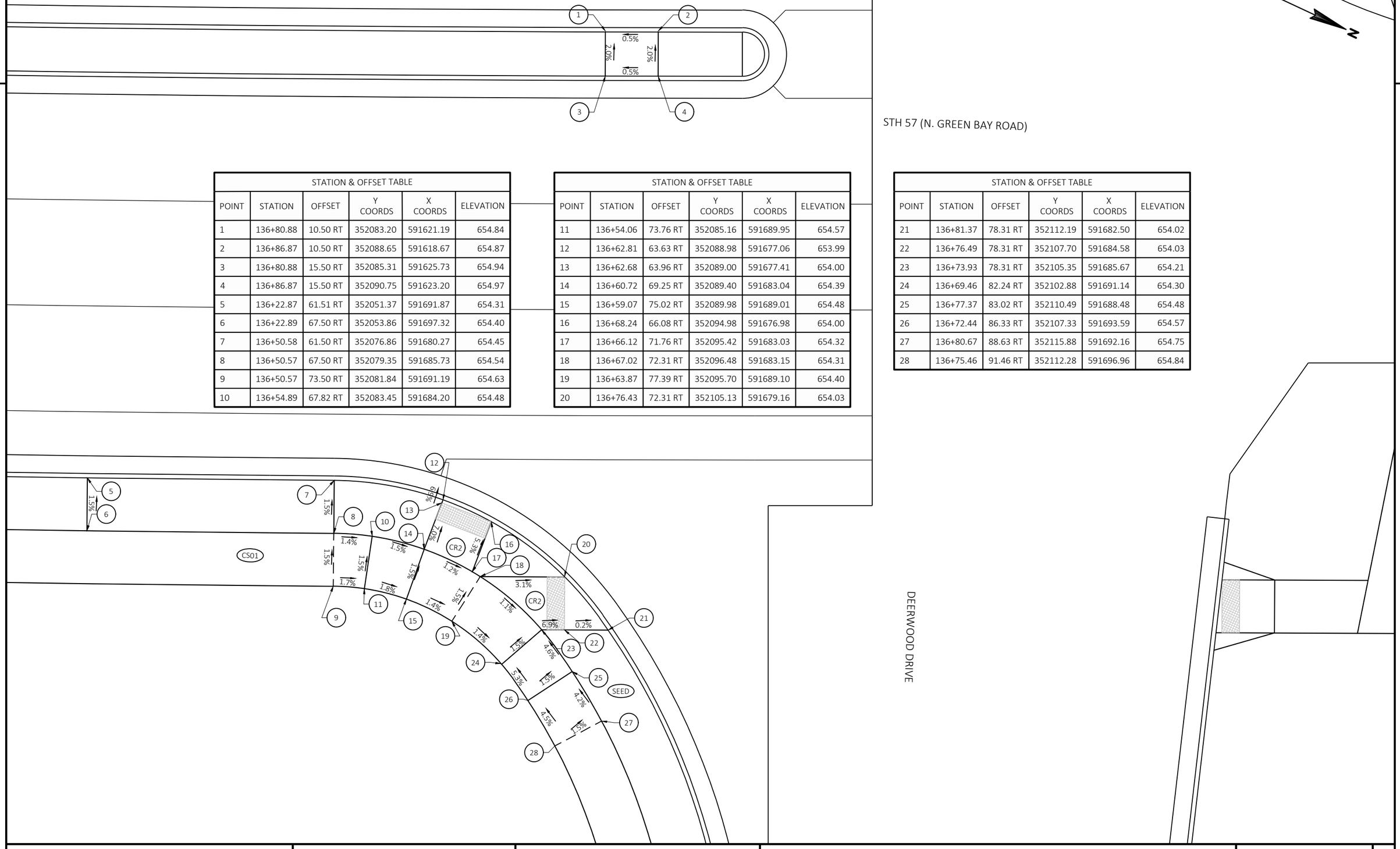
PLOT DATE : 3/19/2021 5:03 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:10 FT

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
1	136+80.88	10.50 RT	352083.20	591621.19	654.84
2	136+86.87	10.50 RT	352088.65	591618.67	654.87
3	136+80.88	15.50 RT	352085.31	591625.73	654.94
4	136+86.87	15.50 RT	352090.75	591623.20	654.97
5	136+22.87	61.51 RT	352051.37	591691.87	654.31
6	136+22.89	67.50 RT	352053.86	591697.32	654.40
7	136+50.58	61.50 RT	352076.86	591680.27	654.45
8	136+50.57	67.50 RT	352079.35	591685.73	654.54
9	136+50.57	73.50 RT	352081.84	591691.19	654.63
10	136+54.89	67.82 RT	352083.45	591684.20	654.48

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
11	136+54.06	73.76 RT	352085.16	591689.95	654.57
12	136+62.81	63.63 RT	352088.98	591677.06	653.99
13	136+62.68	63.96 RT	352089.00	591677.41	654.00
14	136+60.72	69.25 RT	352089.40	591683.04	654.39
15	136+59.07	75.02 RT	352089.98	591689.01	654.48
16	136+68.24	66.08 RT	352094.98	591676.98	654.00
17	136+66.12	71.76 RT	352095.42	591683.03	654.32
18	136+67.02	72.31 RT	352096.48	591683.15	654.31
19	136+63.87	77.39 RT	352095.70	591689.10	654.40
20	136+76.43	72.31 RT	352105.13	591679.16	654.03

STH 57 (N. GREEN BAY ROAD)

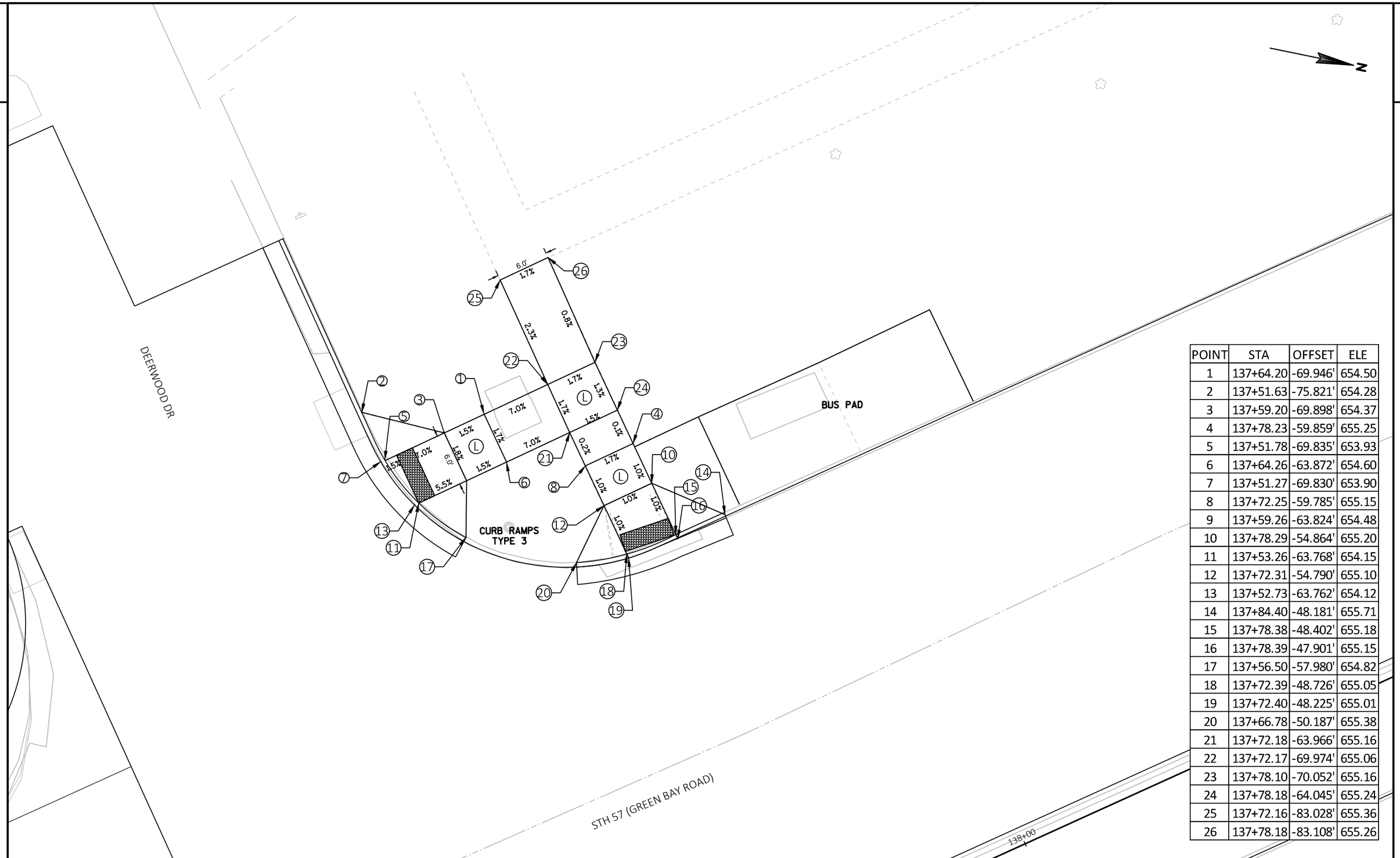
STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
21	136+81.37	78.31 RT	352112.19	591682.50	654.02
22	136+76.49	78.31 RT	352107.70	591684.58	654.03
23	136+73.93	78.31 RT	352105.35	591685.67	654.21
24	136+69.46	82.24 RT	352102.88	591691.14	654.30
25	136+77.37	83.02 RT	352110.49	591688.48	654.48
26	136+72.44	86.33 RT	352107.33	591693.59	654.57
27	136+80.67	88.63 RT	352115.88	591692.16	654.75
28	136+75.46	91.46 RT	352112.28	591696.96	654.84



PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CURB RAMP DETAILS	SHEET 33	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\021101_ID.DWG
LAYOUT NAME - 021108

PLOT DATE : 3/19/2021 5:03 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:10 FT

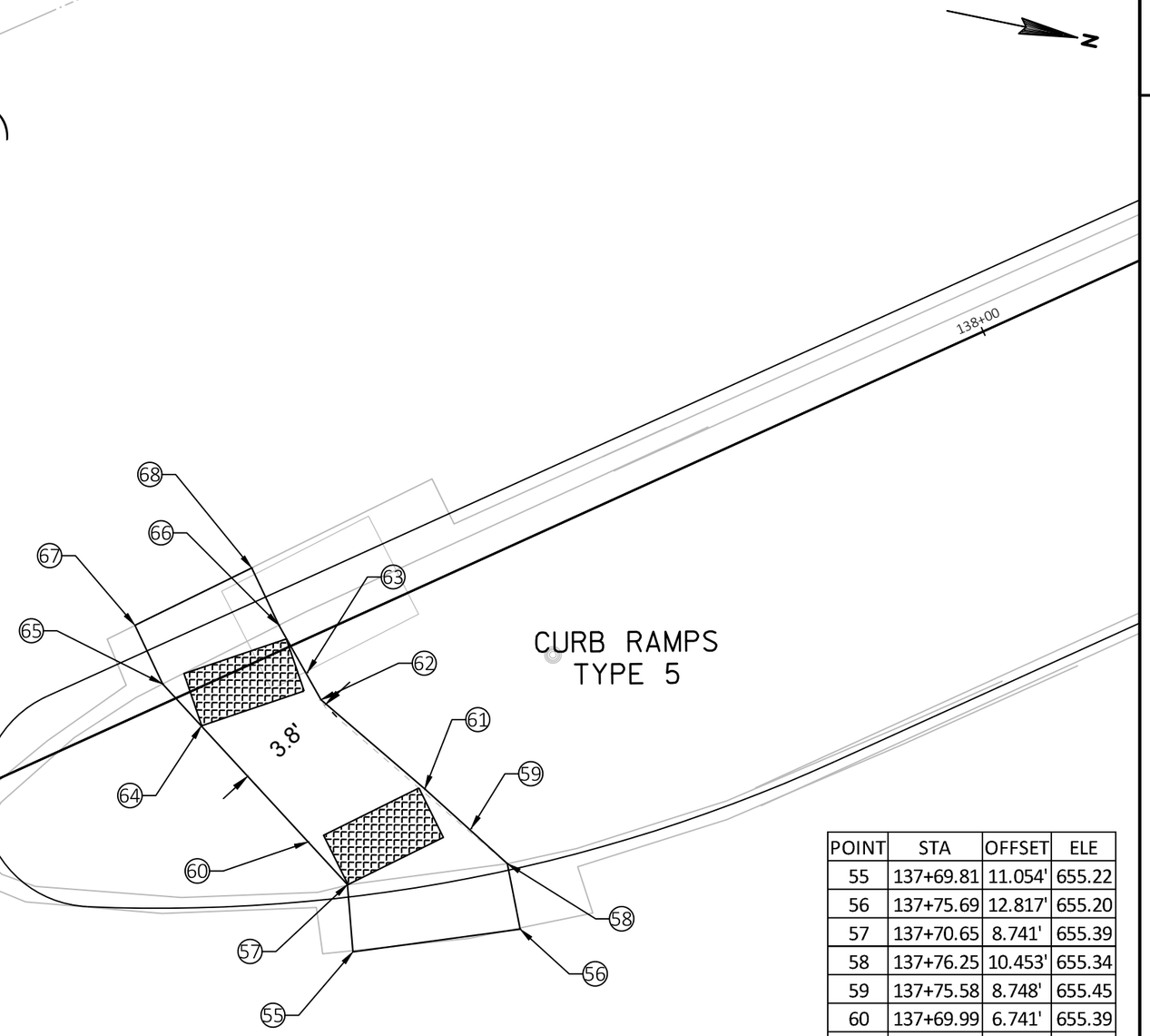


POINT	STA	OFFSET	ELE
1	137+64.20	-69.946'	654.50
2	137+51.63	-75.821'	654.28
3	137+59.20	-69.898'	654.37
4	137+78.23	-59.859'	655.25
5	137+51.78	-69.835'	653.93
6	137+64.26	-63.872'	654.60
7	137+51.27	-69.830'	653.90
8	137+72.25	-59.785'	655.15
9	137+59.26	-63.824'	654.48
10	137+78.29	-54.864'	655.20
11	137+53.26	-63.768'	654.15
12	137+72.31	-54.790'	655.10
13	137+52.73	-63.762'	654.12
14	137+84.40	-48.181'	655.71
15	137+78.38	-48.402'	655.18
16	137+78.39	-47.901'	655.15
17	137+56.50	-57.980'	654.82
18	137+72.39	-48.726'	655.05
19	137+72.40	-48.225'	655.01
20	137+66.78	-50.187'	655.38
21	137+72.18	-63.966'	655.16
22	137+72.17	-69.974'	655.06
23	137+78.10	-70.052'	655.16
24	137+78.18	-64.045'	655.24
25	137+72.16	-83.028'	655.36
26	137+78.18	-83.108'	655.26

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CURB RAMP DETAILS	SHEET 34	E

2

STH 57 (GREEN BAY ROAD)

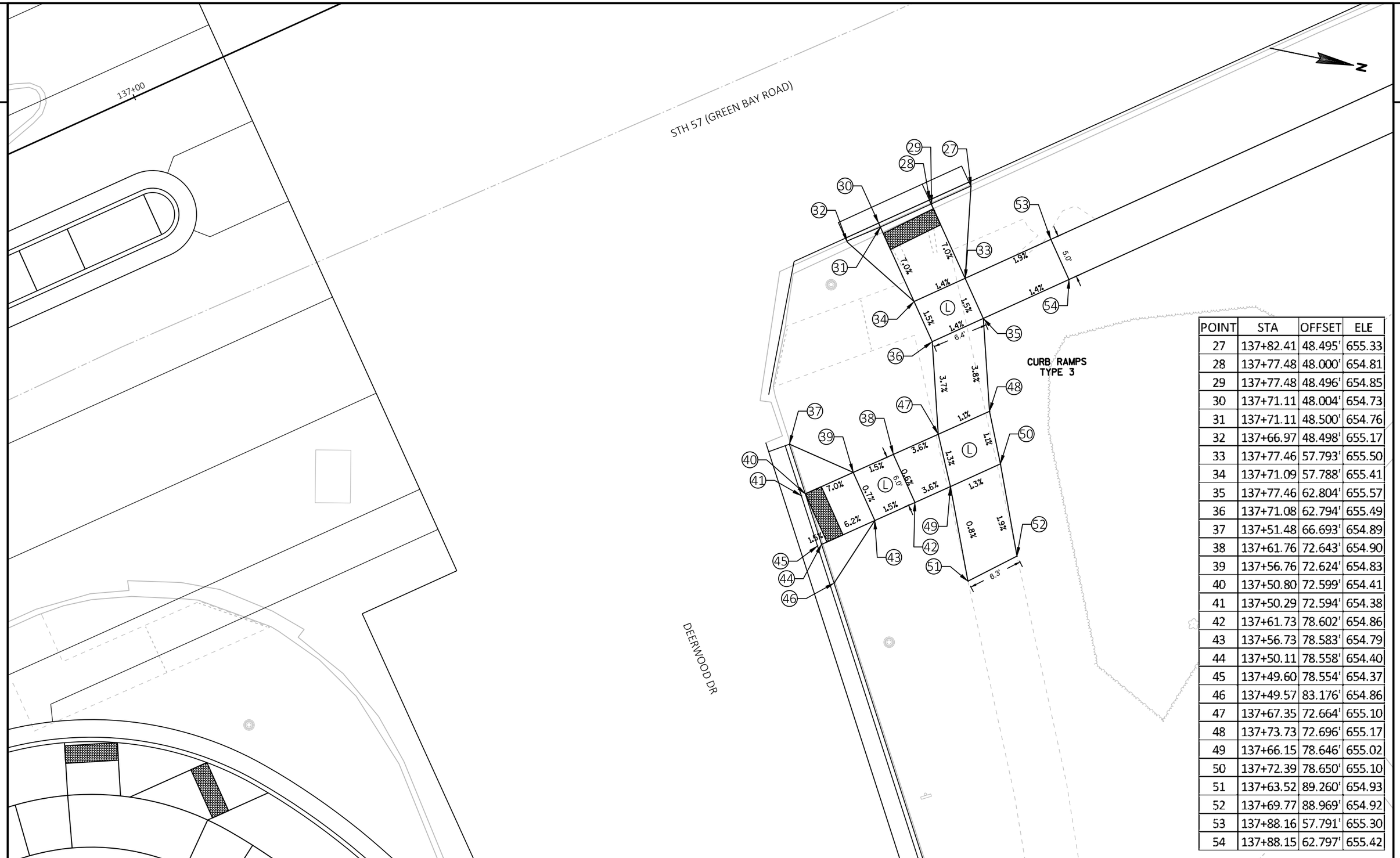


CURB RAMPS
TYPE 5

POINT	STA	OFFSET	ELE
55	137+69.81	11.054'	655.22
56	137+75.69	12.817'	655.20
57	137+70.65	8.741'	655.39
58	137+76.25	10.453'	655.34
59	137+75.58	8.748'	655.45
60	137+69.99	6.741'	655.39
61	137+74.64	6.742'	655.44
62	137+72.55	2.230'	655.40
63	137+72.50	1.127'	655.38
64	137+68.19	1.299'	655.40
65	137+67.54	-0.670'	655.35
66	137+72.27	-0.867'	655.32
67	137+67.51	-3.026'	655.24
68	137+72.23	-3.170'	655.21

*CURB RAMP POINTS ARE EXISTING ELEVATIONS

2

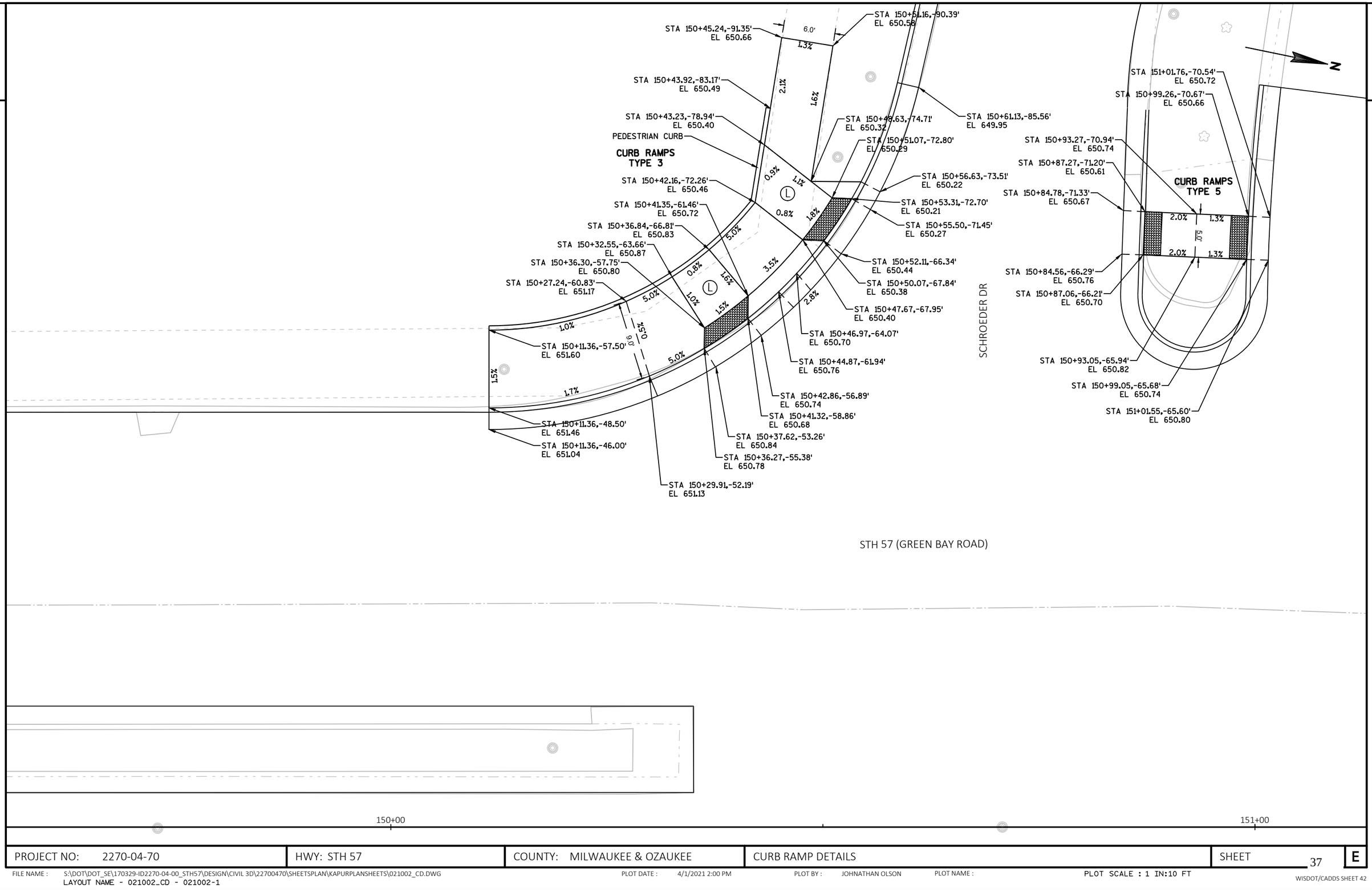


POINT	STA	OFFSET	ELE
27	137+82.41	48.495'	655.33
28	137+77.48	48.000'	654.81
29	137+77.48	48.496'	654.85
30	137+71.11	48.004'	654.73
31	137+71.11	48.500'	654.76
32	137+66.97	48.498'	655.17
33	137+77.46	57.793'	655.50
34	137+71.09	57.788'	655.41
35	137+77.46	62.804'	655.57
36	137+71.08	62.794'	655.49
37	137+51.48	66.693'	654.89
38	137+61.76	72.643'	654.90
39	137+56.76	72.624'	654.83
40	137+50.80	72.599'	654.41
41	137+50.29	72.594'	654.38
42	137+61.73	78.602'	654.86
43	137+56.73	78.583'	654.79
44	137+50.11	78.558'	654.40
45	137+49.60	78.554'	654.37
46	137+49.57	83.176'	654.86
47	137+67.35	72.664'	655.10
48	137+73.73	72.696'	655.17
49	137+66.15	78.646'	655.02
50	137+72.39	78.650'	655.10
51	137+63.52	89.260'	654.93
52	137+69.77	88.969'	654.92
53	137+88.16	57.791'	655.30
54	137+88.15	62.797'	655.42

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CURB RAMP DETAILS	SHEET 36	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\021002_CD.DWG
LAYOUT NAME - 021002_CD - 021002-3
PLOT DATE : 4/1/2021 2:01 PM PLOT BY : JOHNATHAN OLSON PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

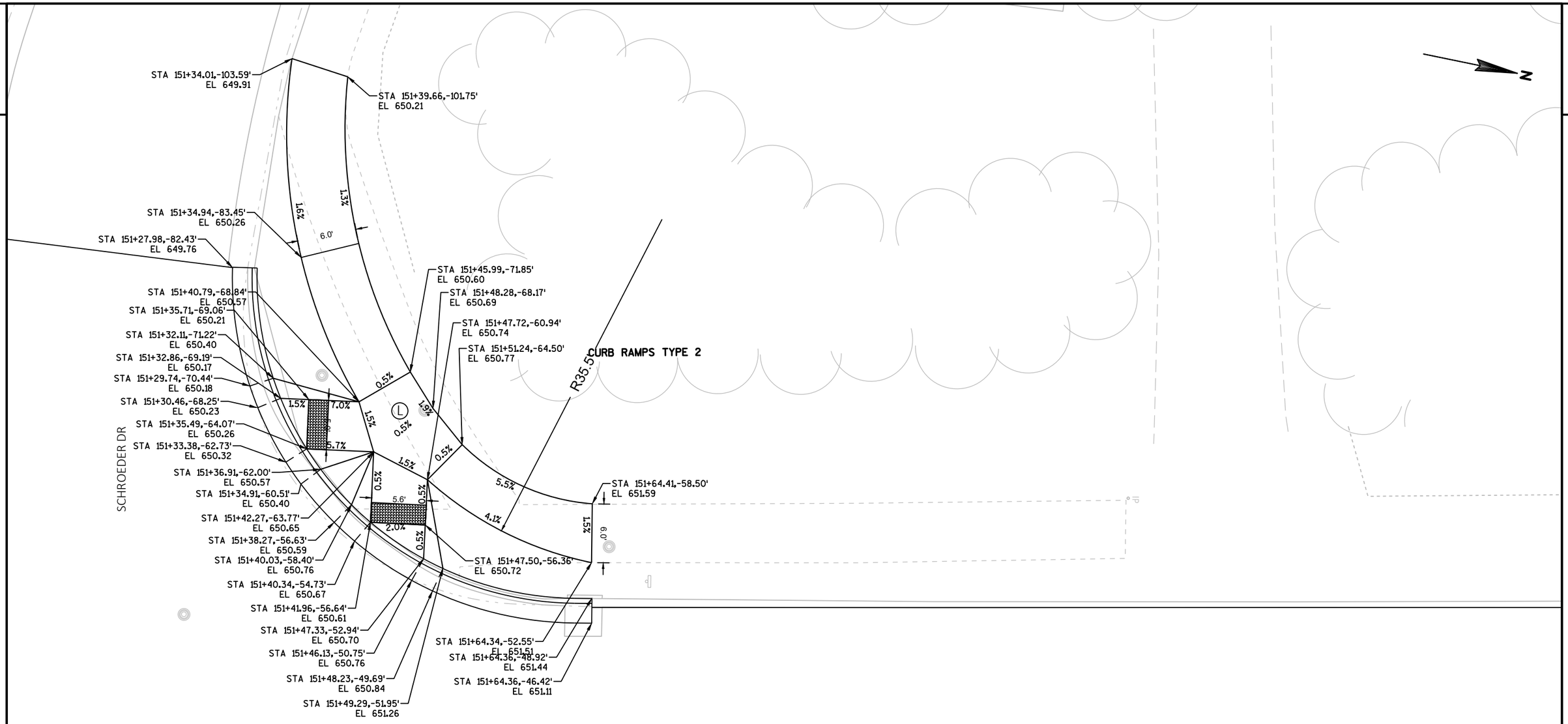
2



PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CURB RAMP DETAILS	SHEET 37	E

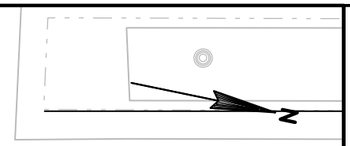
FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\021002_CD.DWG
LAYOUT NAME - 021002_CD - 021002-1
PLOT DATE : 4/1/2021 2:00 PM
PLOT BY : JOHNATHAN OLSON
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

2

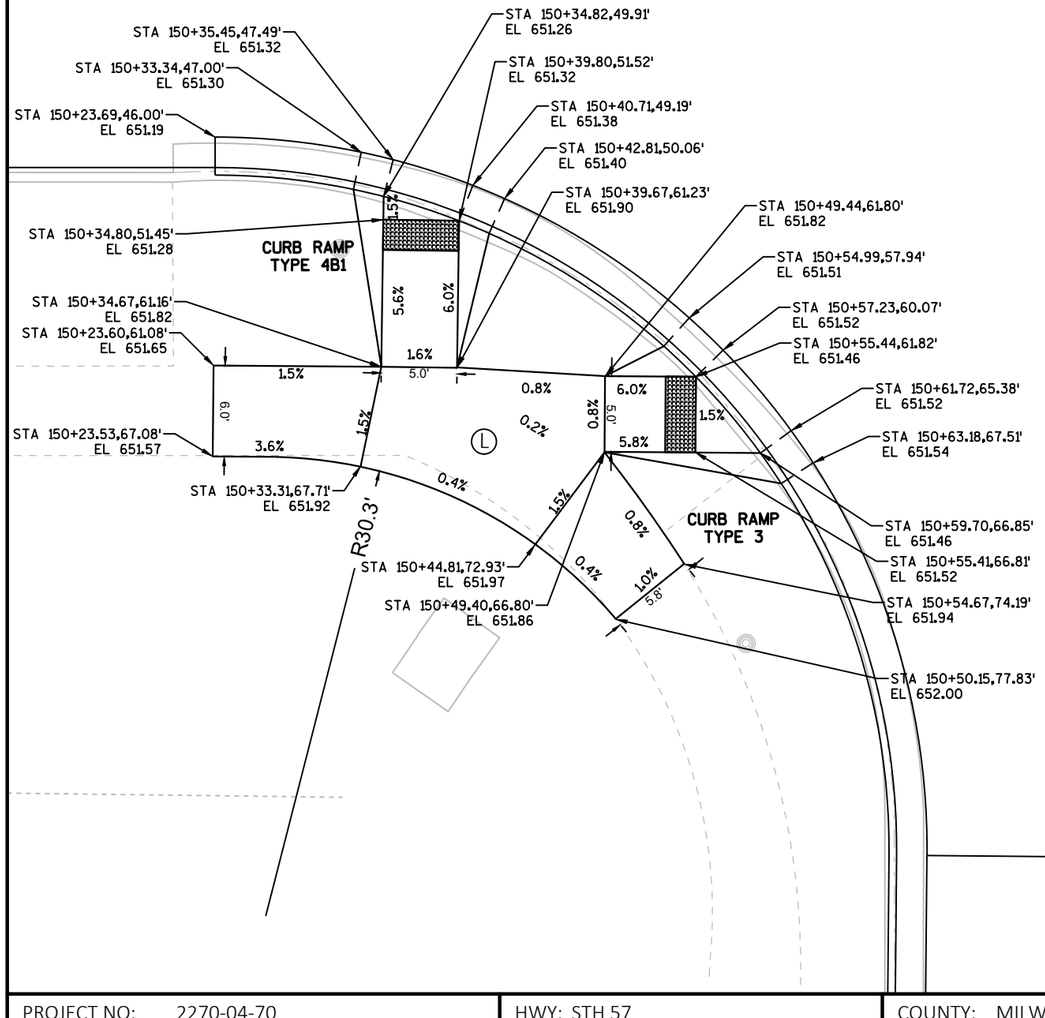


PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CURB RAMP DETAILS	SHEET 38	E

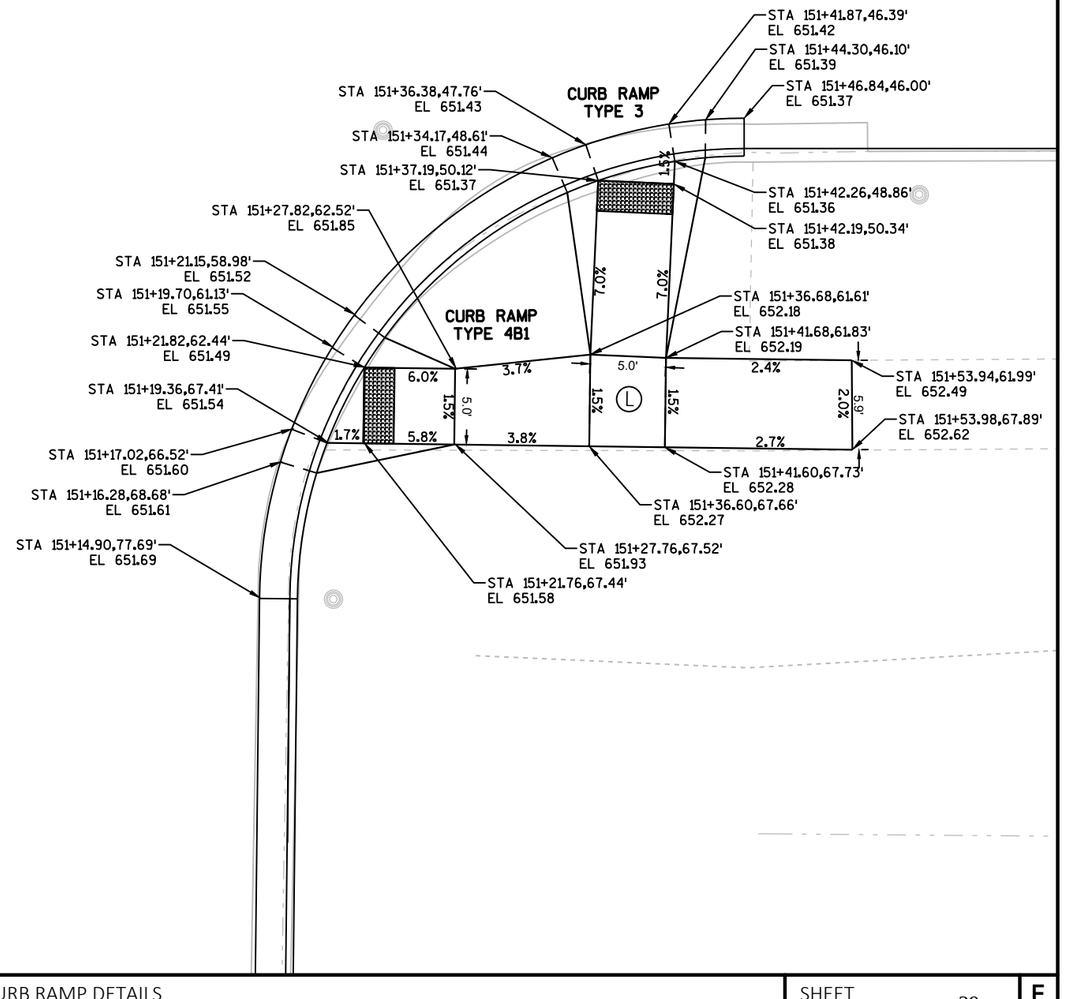
FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\021002_CD.DWG
LAYOUT NAME - 021002_CD - 021002-2
PLOT DATE : 4/1/2021 2:01 PM PLOT BY : JOHNATHAN OLSON PLOT NAME : PLOT SCALE : **********
WISDOT/CADDS SHEET 42



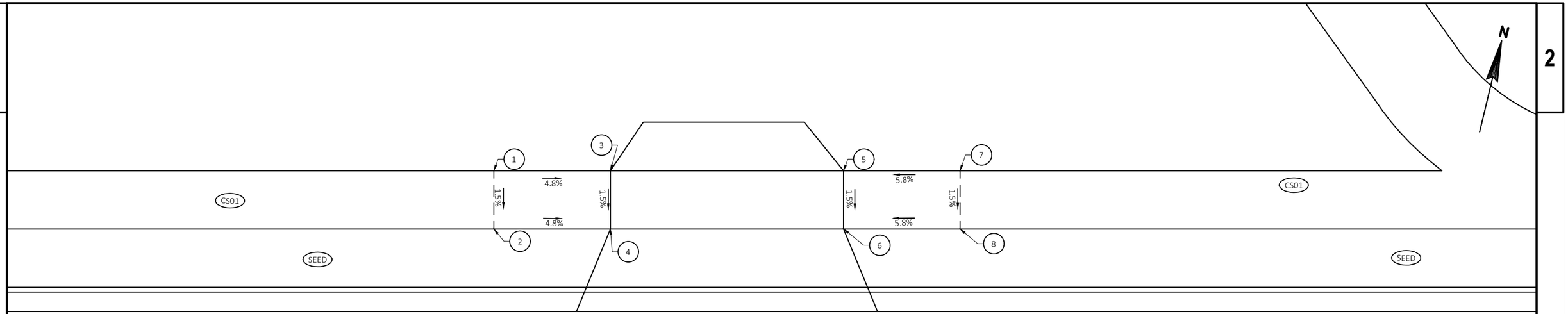
STH 57 (GREEN BAY ROAD)



SCHROEDER DR



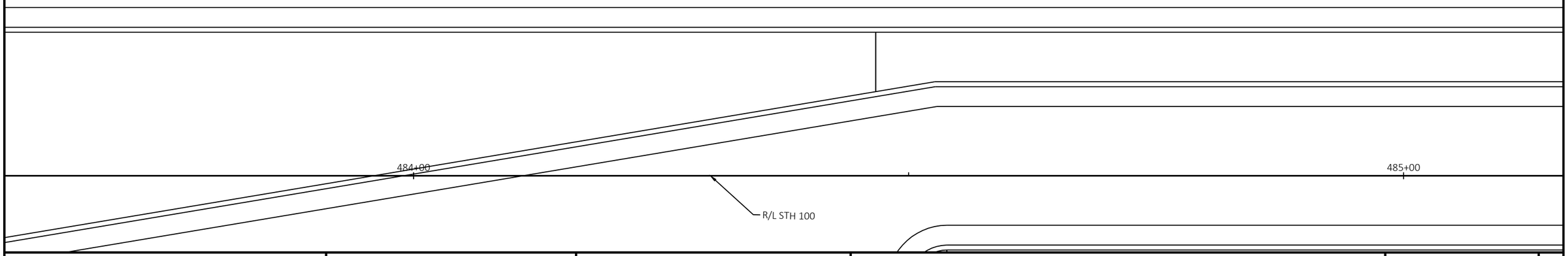
PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CURB RAMP DETAILS	SHEET 39	E



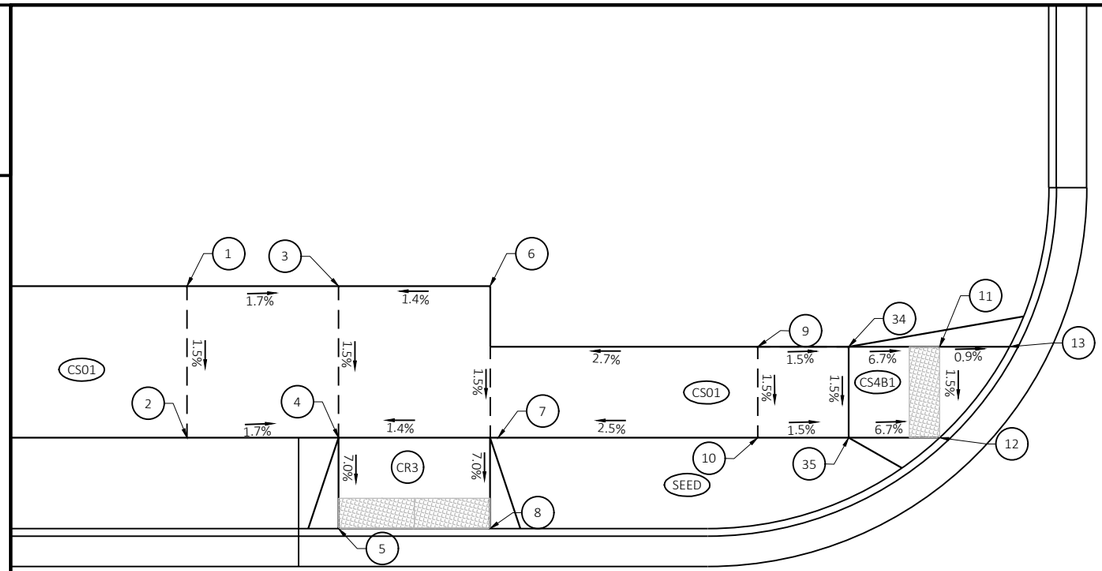
STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
1	484+08.80	72.50 LT	350470.61	590608.13	665.98
2	484+08.80	66.50 LT	350464.78	590609.54	665.89
3	484+20.80	72.50 LT	350473.42	590619.80	665.40
4	484+20.80	66.50 LT	350467.59	590621.21	665.31

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
5	484+44.80	72.50 LT	350479.04	590643.13	665.52
6	484+44.80	66.50 LT	350473.21	590644.54	665.43
7	484+56.80	72.50 LT	350481.85	590654.80	666.22
8	484+56.80	66.50 LT	350476.02	590656.21	666.13

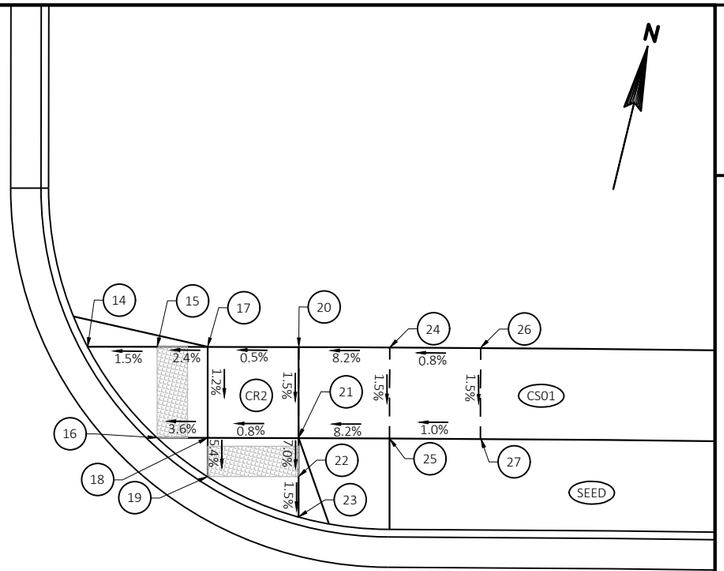
STH 100 (W. BROWN DEER ROAD)



PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CURB RAMP DETAILS	SHEET 40	E



N. DEERBROOK TRAIL

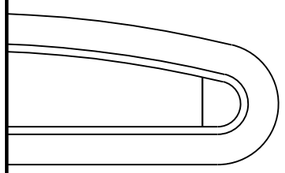


STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
1	486+08.26	76.50 LT	350521.21	590801.11	667.13
2	486+08.26	66.50 LT	350511.49	590803.46	666.98
3	486+18.26	76.50 LT	350523.55	590810.84	666.96
4	486+18.26	66.50 LT	350513.83	590813.18	666.81
5	486+18.26	60.50 LT	350507.99	590814.58	666.39
6	486+28.26	76.50 LT	350525.89	590820.56	667.10
7	486+28.26	66.50 LT	350516.17	590822.90	666.95
8	486+28.26	60.50 LT	350510.34	590824.30	666.53
9	486+45.93	72.50 LT	350526.14	590838.67	667.59

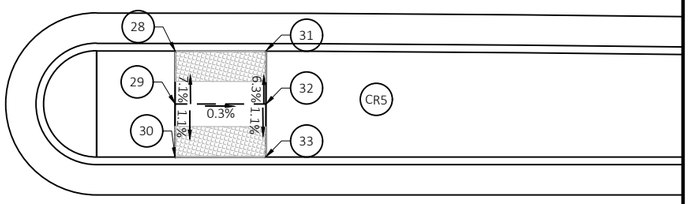
STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
10	486+45.93	66.50 LT	350520.31	590840.07	667.50
11	486+57.93	72.50 LT	350528.95	590850.34	667.10
12	486+57.93	66.50 LT	350523.12	590851.74	667.01
13	486+62.53	72.50 LT	350530.03	590854.81	667.14
14	487+12.71	72.50 LT	350541.78	590903.59	667.98
15	487+17.29	72.50 LT	350542.85	590908.05	668.05
16	487+17.29	66.50 LT	350537.01	590909.45	667.94
17	487+20.62	72.50 LT	350543.63	590911.29	668.13
18	487+20.62	66.50 LT	350537.79	590912.69	668.06

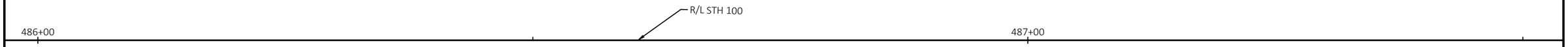
STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
19	487+20.62	63.93 LT	350535.30	590913.29	667.92
20	487+26.62	72.50 LT	350545.04	590917.12	668.18
21	487+26.62	66.50 LT	350539.20	590918.52	668.09
22	487+26.62	63.93 LT	350536.70	590919.12	667.91
23	487+26.62	61.27 LT	350534.12	590919.74	667.87
24	487+32.64	72.50 LT	350546.45	590922.97	668.67
25	487+32.62	66.50 LT	350540.61	590924.36	668.58
26	487+38.64	72.50 LT	350547.85	590928.80	668.73
27	487+38.62	66.50 LT	350542.02	590930.19	668.64

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
28	487+20.58	14.50 LT	350487.23	590924.83	667.10
29	487+20.58	11.00 LT	350483.83	590925.65	667.35
30	487+20.58	7.50 LT	350480.43	590926.47	667.31
31	487+26.58	14.50 LT	350488.64	590930.66	667.11
32	487+26.58	11.00 LT	350485.23	590931.48	667.33
33	487+26.58	7.50 LT	350481.83	590932.30	667.29
34	486+45.93	72.50 LT	350527.54	590844.50	667.50
35	486+45.93	72.50 LT	350521.71	590845.91	667.41



STH 100 (W. BROWN DEER ROAD)



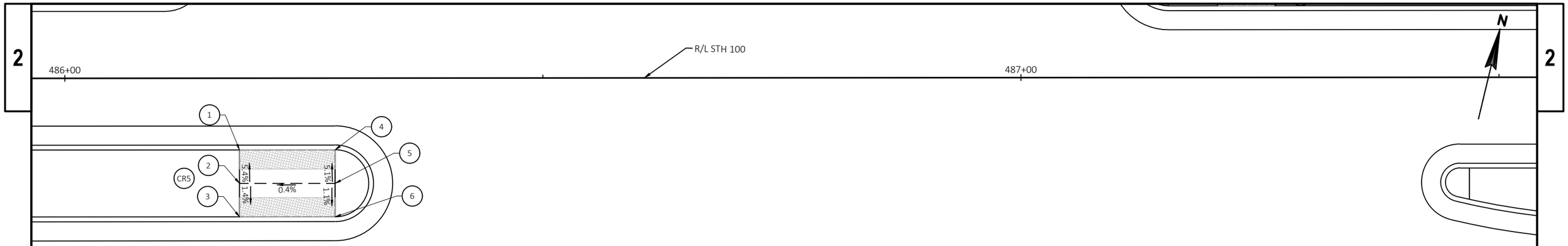


PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CURB RAMP DETAILS	SHEET 41	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\021102_ID.DWG
LAYOUT NAME - 021123

PLOT DATE : 3/19/2021 5:09 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 42



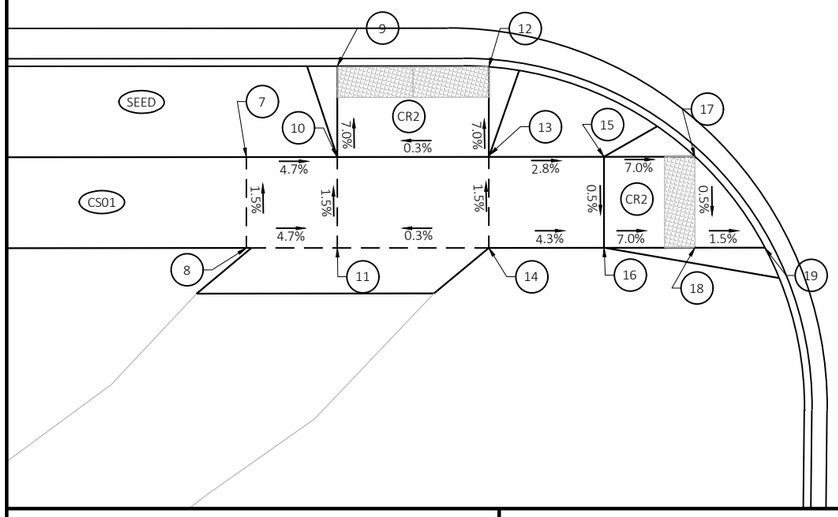
STH 100 (W. BROWN DEER ROAD)

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
1	486+18.26	7.50 RT	350441.88	590830.51	666.97
2	486+18.26	11.00 RT	350438.48	590831.33	667.16
3	486+18.26	14.50 RT	350435.08	590832.15	667.11
4	486+28.26	7.50 RT	350444.23	590840.23	667.02
5	486+28.26	11.00 RT	350440.82	590841.05	667.20
6	486+28.26	14.50 RT	350437.42	590841.87	667.16
7	486+12.26	66.50 RT	350383.12	590838.49	667.47
8	486+12.26	72.50 RT	350377.29	590839.89	667.56
9	486+18.26	60.50 RT	350390.36	590842.92	666.77

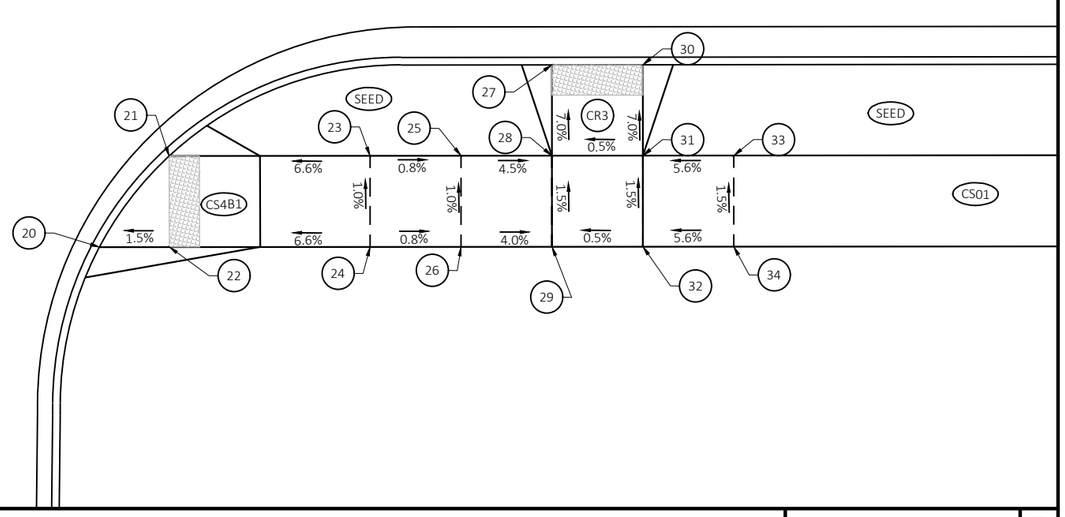
STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
10	486+18.26	66.50 RT	350384.53	590844.32	667.19
11	486+18.26	72.50 RT	350378.69	590845.73	667.28
12	486+28.26	60.56 RT	350392.64	590852.65	666.80
13	486+28.26	66.50 RT	350386.87	590854.04	667.22
14	486+28.26	72.50 RT	350381.03	590855.45	667.31
15	486+35.86	66.50 RT	350388.65	590861.43	667.01
16	486+35.86	72.50 RT	350382.81	590862.83	666.98
17	486+41.86	66.50 RT	350390.05	590867.26	666.59
18	486+41.86	72.50 RT	350384.22	590868.67	666.56

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
19	486+46.46	72.50 RT	350385.30	590873.14	666.49
20	486+90.67	72.50 RT	350395.65	590916.12	666.99
21	486+95.27	66.50 RT	350402.56	590919.19	667.06
22	486+95.27	72.50 RT	350396.72	590920.59	667.06
23	487+08.53	66.50 RT	350405.66	590932.08	667.93
24	487+08.53	72.50 RT	350399.83	590933.48	667.99
25	487+14.53	66.50 RT	350407.07	590937.91	667.98
26	487+14.53	72.50 RT	350401.23	590939.32	668.04
27	487+20.53	60.50 RT	350414.31	590942.34	667.29

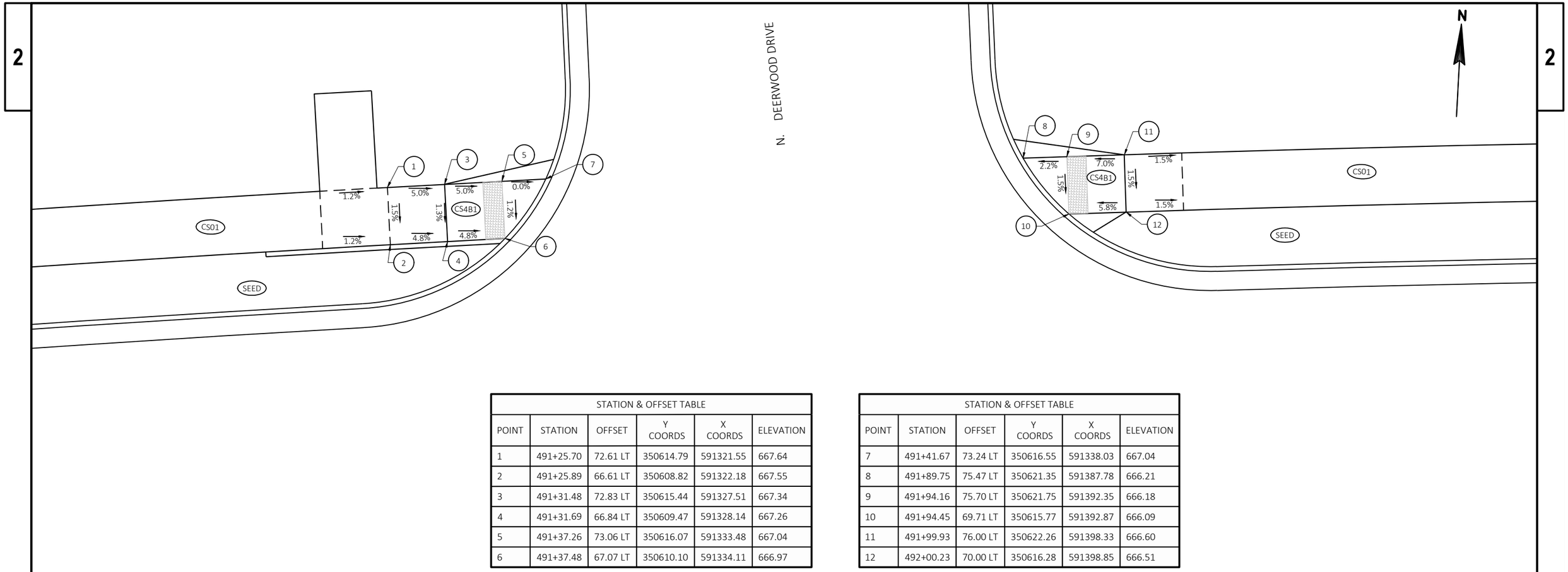
STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
28	487+20.53	66.50 RT	350408.47	590943.74	667.71
29	487+20.53	72.50 RT	350402.64	590945.15	667.80
30	487+26.53	60.50 RT	350415.71	590948.18	667.32
31	487+26.53	66.50 RT	350409.88	590949.58	667.74
32	487+26.53	72.50 RT	350404.04	590950.98	667.83
33	487+32.53	66.50 RT	350411.28	590955.41	668.08
34	487+32.53	72.50 RT	350405.45	590956.82	668.17



N. DEERBROOK TRAIL



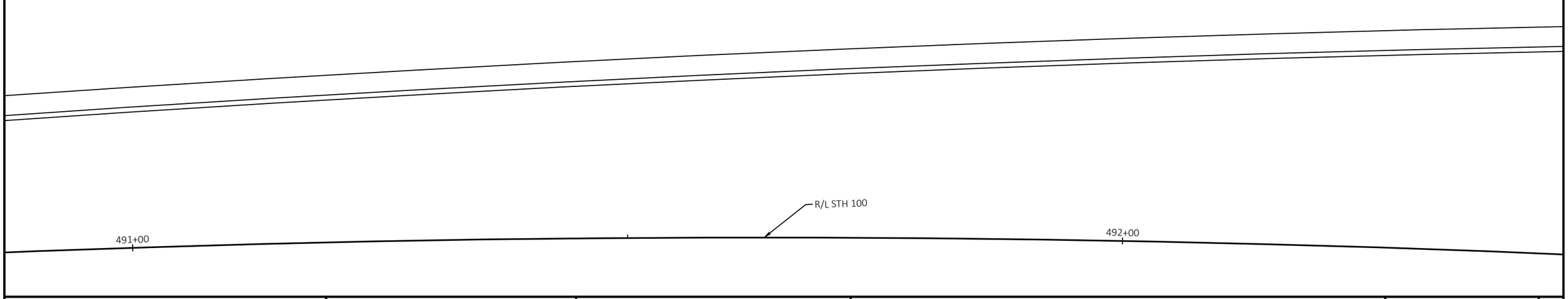
PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CURB RAMP DETAILS	SHEET 42	E



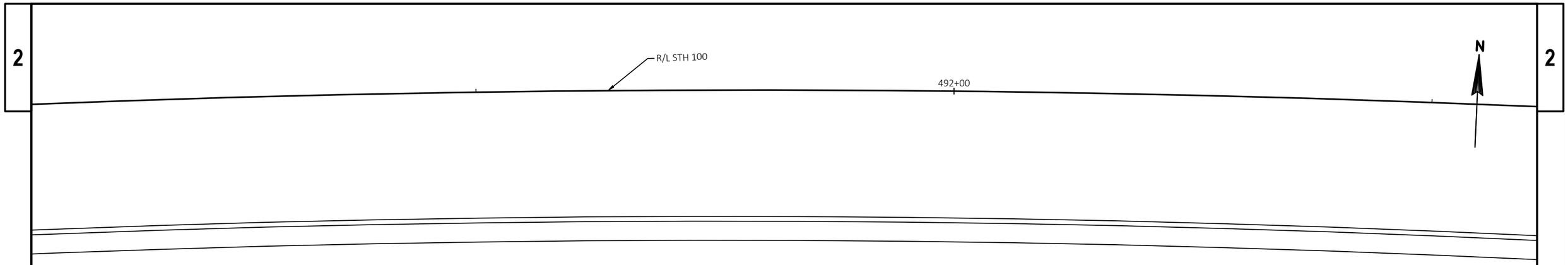
STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
1	491+25.70	72.61 LT	350614.79	591321.55	667.64
2	491+25.89	66.61 LT	350608.82	591322.18	667.55
3	491+31.48	72.83 LT	350615.44	591327.51	667.34
4	491+31.69	66.84 LT	350609.47	591328.14	667.26
5	491+37.26	73.06 LT	350616.07	591333.48	667.04
6	491+37.48	67.07 LT	350610.10	591334.11	666.97

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
7	491+41.67	73.24 LT	350616.55	591338.03	667.04
8	491+89.75	75.47 LT	350621.35	591387.78	666.21
9	491+94.16	75.70 LT	350621.75	591392.35	666.18
10	491+94.45	69.71 LT	350615.77	591392.87	666.09
11	491+99.93	76.00 LT	350622.26	591398.33	666.60
12	492+00.23	70.00 LT	350616.28	591398.85	666.51

STH 100 (W. BROWN DEER ROAD)



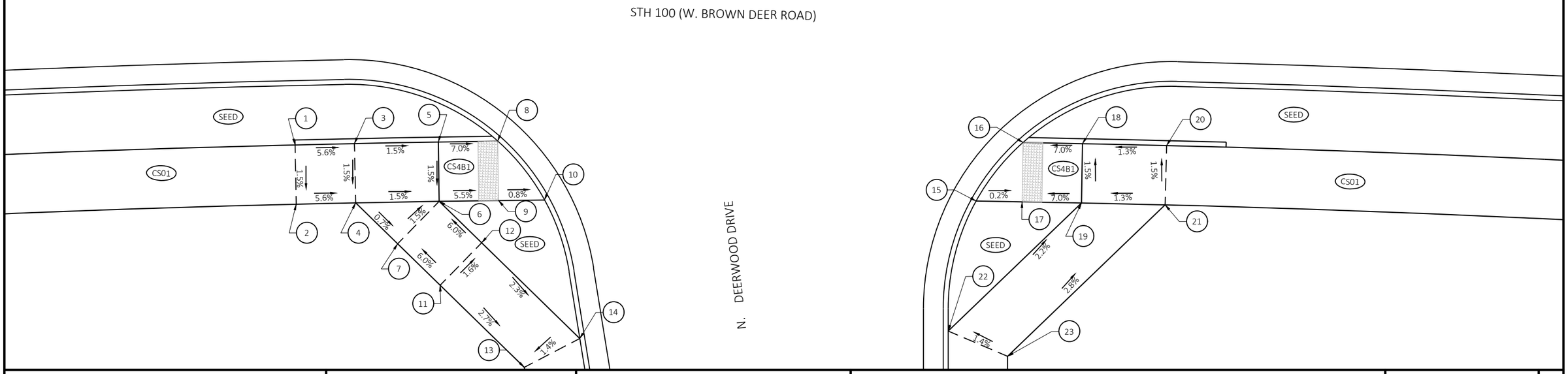
PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CURB RAMP DETAILS	SHEET 43	E



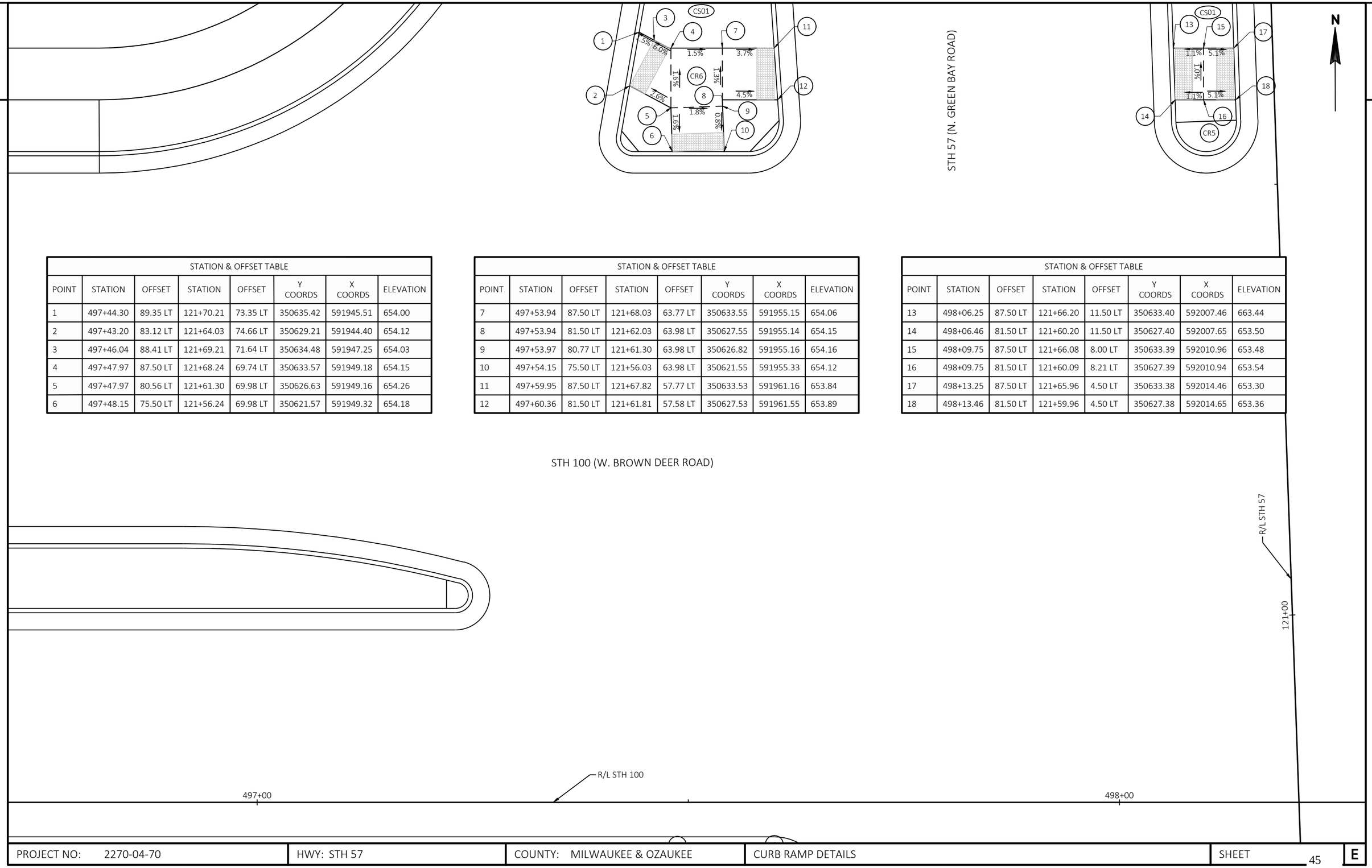
STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
1	491+31.24	65.15 RT	350477.77	591336.83	666.59
2	491+31.21	71.14 RT	350471.79	591337.22	666.50
3	491+37.45	65.15 RT	350478.17	591342.81	666.25
4	491+37.44	71.15 RT	350472.18	591343.21	666.16
5	491+46.23	65.16 RT	350478.70	591351.28	666.12
6	491+46.20	71.16 RT	350472.71	591351.62	666.03
7	491+41.76	75.38 RT	350468.24	591347.62	666.12
8	491+52.43	65.17 RT	350479.06	591357.27	665.70

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
9	491+52.43	71.17 RT	350473.07	591357.61	665.70
10	491+57.25	71.17 RT	350473.33	591362.25	665.66
11	491+46.15	79.65 RT	350464.24	591352.10	666.49
12	491+50.59	75.42 RT	350468.72	591356.10	666.39
13	491+54.90	88.06 RT	350456.34	591360.96	666.16
14	491+60.81	85.22 RT	350459.49	591366.43	666.07
15	492+02.51	71.26 RT	350475.16	591405.81	665.09
16	492+07.35	65.28 RT	350481.29	591410.29	664.99

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
17	492+07.33	71.28 RT	350475.30	591410.45	665.08
18	492+13.56	65.30 RT	350481.45	591416.29	665.41
19	492+13.56	71.30 RT	350475.45	591416.45	665.50
20	492+22.36	65.32 RT	350481.63	591424.78	665.30
21	492+22.34	71.32 RT	350475.63	591424.90	665.39
22	491+99.73	84.44 RT	350461.91	591403.58	665.91
23	492+06.04	86.92 RT	350459.62	591409.68	666.00



PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CURB RAMP DETAILS	SHEET 44	E

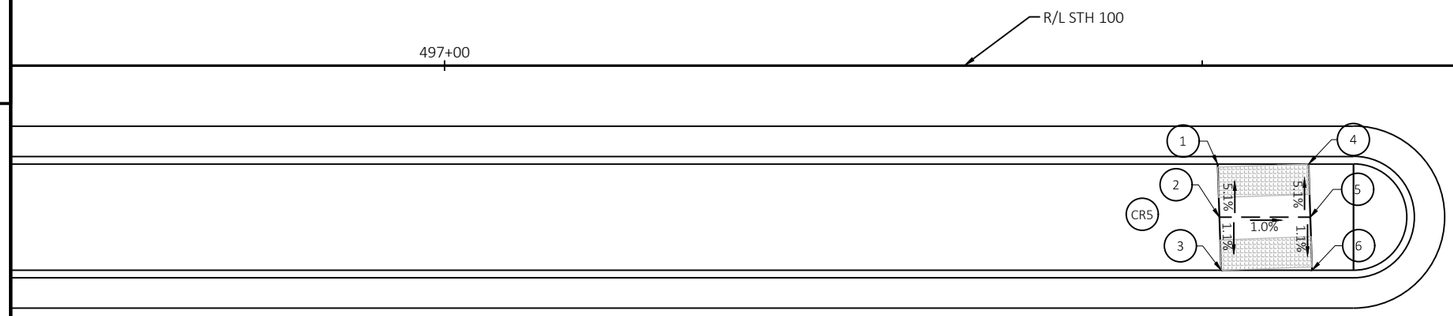


STATION & OFFSET TABLE							
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
1	497+44.30	89.35 LT	121+70.21	73.35 LT	350635.42	591945.51	654.00
2	497+43.20	83.12 LT	121+64.03	74.66 LT	350629.21	591944.40	654.12
3	497+46.04	88.41 LT	121+69.21	71.64 LT	350634.48	591947.25	654.03
4	497+47.97	87.50 LT	121+68.24	69.74 LT	350633.57	591949.18	654.15
5	497+47.97	80.56 LT	121+61.30	69.98 LT	350626.63	591949.16	654.26
6	497+48.15	75.50 LT	121+56.24	69.98 LT	350621.57	591949.32	654.18

STATION & OFFSET TABLE							
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
7	497+53.94	87.50 LT	121+68.03	63.77 LT	350633.55	591955.15	654.06
8	497+53.94	81.50 LT	121+62.03	63.98 LT	350627.55	591955.14	654.15
9	497+53.97	80.77 LT	121+61.30	63.98 LT	350626.82	591955.16	654.16
10	497+54.15	75.50 LT	121+56.03	63.98 LT	350621.55	591955.33	654.12
11	497+59.95	87.50 LT	121+67.82	57.77 LT	350633.53	591961.16	653.84
12	497+60.36	81.50 LT	121+61.81	57.58 LT	350627.53	591961.55	653.89

STATION & OFFSET TABLE							
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
13	498+06.25	87.50 LT	121+66.20	11.50 LT	350633.40	592007.46	663.44
14	498+06.46	81.50 LT	121+60.20	11.50 LT	350627.40	592007.65	653.50
15	498+09.75	87.50 LT	121+66.08	8.00 LT	350633.39	592010.96	653.48
16	498+09.75	81.50 LT	121+60.09	8.21 LT	350627.39	592010.94	653.54
17	498+13.25	87.50 LT	121+65.96	4.50 LT	350633.38	592014.46	653.30
18	498+13.46	81.50 LT	121+59.96	4.50 LT	350627.38	592014.65	653.36

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CURB RAMP DETAILS	SHEET 45	E

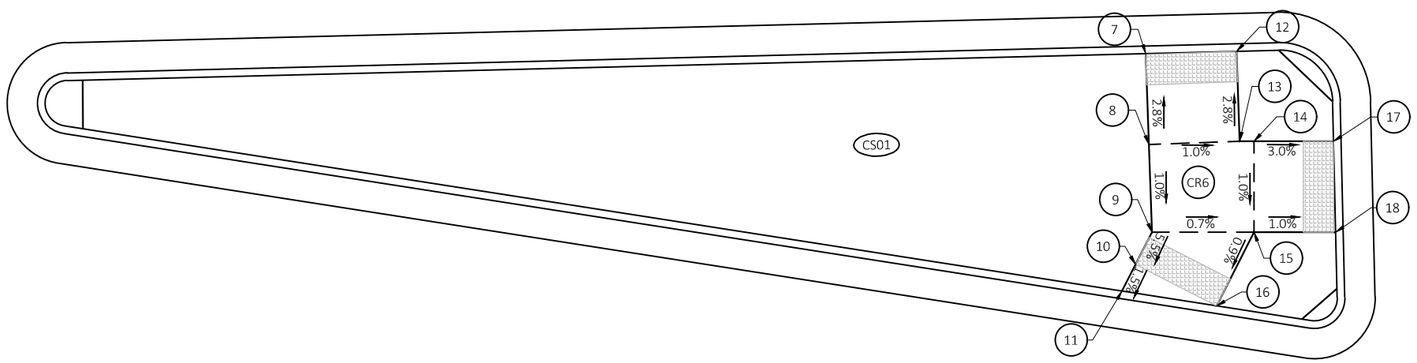


STATION & OFFSET TABLE							
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
1	497+51.01	6.50 RT	120+74.19	69.98 LT	350539.56	591951.96	654.90
2	497+51.14	10.00 RT	120+70.65	69.98 LT	350536.06	591952.07	655.08
3	497+51.26	13.50 RT	120+67.10	69.98 LT	350532.56	591952.18	655.04
4	497+57.02	6.50 RT	120+73.98	63.98 LT	350539.54	591957.96	654.84
5	497+57.14	10.00 RT	120+70.65	63.98 LT	350536.04	591958.07	655.02
6	497+57.26	13.50 RT	120+66.90	63.98 LT	350532.54	591958.19	654.98

STATION & OFFSET TABLE							
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
7	497+52.87	59.72 RT	120+20.30	69.74 LT	350486.34	591953.67	655.43
8	497+53.08	65.71 RT	120+14.24	69.68 LT	350480.35	591953.86	655.60
9	497+53.28	71.50 RT	120+08.38	69.62 LT	350474.55	591954.04	655.54
10	497+52.20	73.63 RT	120+06.25	70.76 LT	350472.42	591952.95	655.41
11	497+51.31	75.38 RT	120+04.50	71.69 LT	350470.68	591952.06	655.38
12	497+58.87	59.57 RT	120+20.30	63.74 LT	350486.47	591959.66	655.37

STATION & OFFSET TABLE							
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
13	497+59.08	65.50 RT	120+14.30	63.68 LT	350480.54	591959.86	655.54
14	497+60.01	65.50 RT	120+14.28	62.75 LT	350480.53	591960.79	655.55
15	497+60.01	71.50 RT	120+08.22	62.89 LT	350474.53	591960.78	655.49
16	497+57.55	76.35 RT	120+03.37	65.48 LT	350469.69	591958.29	655.44
17	497+65.26	65.50 RT	120+14.15	57.50 LT	350480.52	591966.04	655.37
18	497+65.41	71.50 RT	120+08.09	57.50 LT	350474.52	591966.17	655.43

STH 100 (W. BROWN DEER ROAD)



STH 57 (N. GREEN BAY ROAD)

R/L STH 57

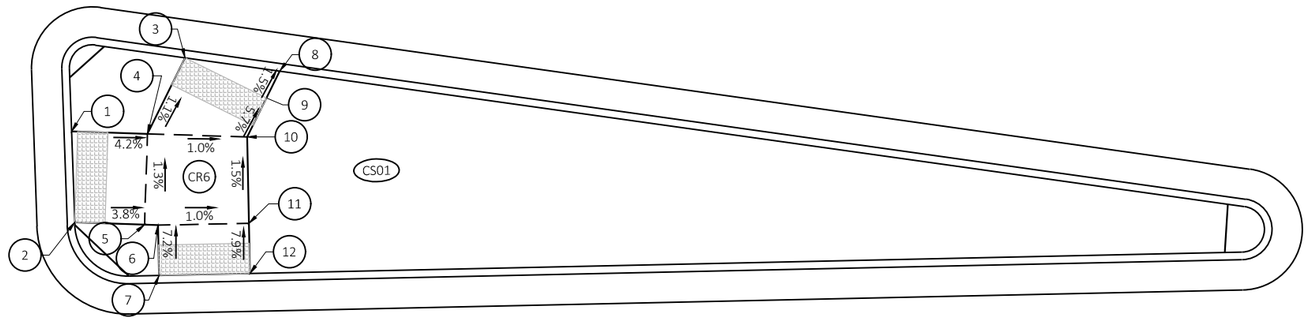
120+00

N

2

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CURB RAMP DETAILS	SHEET 46	E

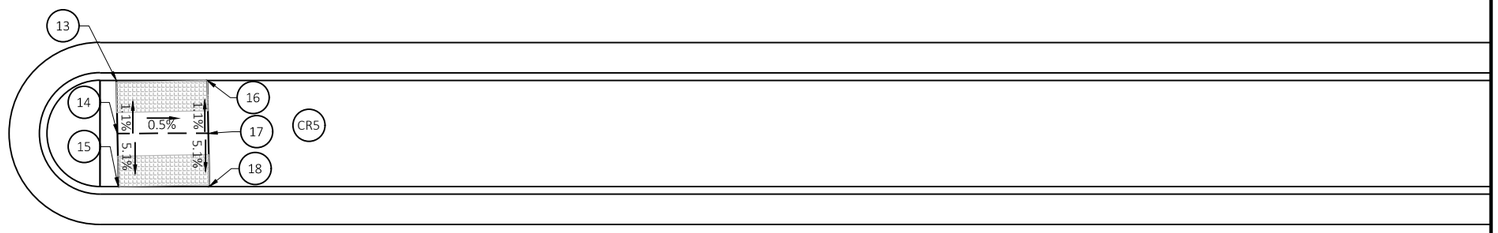
STH 57 (N. GREEN BAY ROAD)

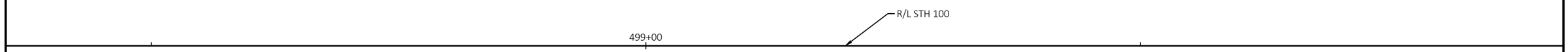


STATION & OFFSET TABLE							
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
1	498+95.39	85.06 LT	121+60.65	77.50 RT	350630.71	592096.59	652.60
2	498+95.60	79.05 LT	121+54.64	77.50 RT	350624.70	592096.78	652.66
3	499+02.87	89.91 LT	121+65.24	85.15 RT	350635.54	592104.09	652.33
4	499+00.40	84.89 LT	121+60.31	82.50 RT	350630.53	592101.60	652.39
5	499+00.20	78.90 LT	121+54.33	82.10 RT	350624.54	592101.39	652.47
6	499+01.09	78.87 LT	121+54.27	82.99 RT	350624.51	592102.28	652.48
7	499+01.16	75.56 LT	121+50.96	82.93 RT	350621.20	592102.33	652.72
8	499+09.13	89.03 LT	121+64.14	91.37 RT	350634.64	592110.34	652.26
9	499+08.25	87.26 LT	121+62.40	90.43 RT	350632.87	592109.46	652.29

STATION & OFFSET TABLE							
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
10	499+06.98	84.68 LT	121+59.87	89.07 RT	350630.30	592108.18	652.33
11	499+07.09	78.98 LT	121+54.17	88.98 RT	350624.60	592108.28	652.42
12	499+07.16	75.67 LT	121+50.86	88.93 RT	350621.29	592108.33	652.68
13	499+02.04	29.50 LT	121+04.90	82.21 RT	350575.14	592103.08	653.12
14	499+02.11	26.00 LT	121+01.40	82.15 RT	350571.64	592103.14	653.16
15	499+02.17	22.50 LT	120+97.90	82.10 RT	350568.14	592103.20	652.98
16	499+08.04	29.50 LT	121+04.69	88.21 RT	350575.12	592109.08	653.09
17	499+08.11	26.00 LT	121+01.19	88.15 RT	350571.62	592109.14	653.13
18	499+08.17	22.50 LT	120+97.69	88.10 RT	350568.12	592109.20	652.95

STH 100 (W. BROWN DEER ROAD)





PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CURB RAMP DETAILS	SHEET 47	E

2

N

R/L STH 100

499+00

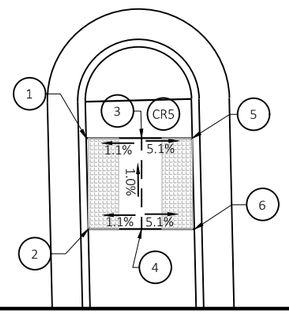
STATION & OFFSET TABLE							
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
1	498+47.29	65.50 RT	120+12.12	24.50 RT	350480.29	592048.07	654.64
2	498+47.43	71.50 RT	120+06.14	24.50 RT	350474.29	592048.19	654.70
3	498+50.93	65.50 RT	120+12.03	28.14 RT	350480.28	592051.71	654.68
4	498+50.93	71.50 RT	120+06.06	28.00 RT	350474.28	592051.69	654.74
5	498+54.29	65.50 RT	120+11.95	31.50 RT	350480.27	592055.07	654.50
6	498+54.43	71.50 RT	120+05.98	31.50 RT	350474.27	592055.20	654.56

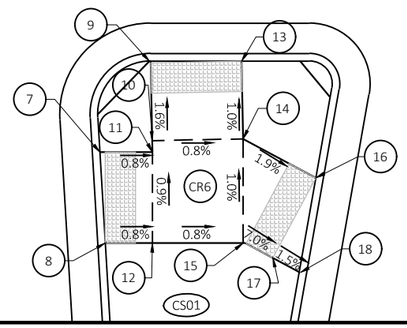
STATION & OFFSET TABLE							
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
7	499+00.39	65.50 RT	120+10.84	77.58 RT	350480.14	592101.16	654.10
8	499+00.74	71.50 RT	120+04.91	77.80 RT	350474.14	592101.50	654.16
9	499+03.74	59.50 RT	120+16.67	81.09 RT	350486.13	592104.54	653.98
10	499+03.84	64.74 RT	120+11.51	81.06 RT	350480.90	592104.62	654.06
11	499+03.86	65.50 RT	120+10.75	81.05 RT	350480.13	592104.64	654.07
12	499+03.86	71.50 RT	120+04.84	80.91 RT	350474.13	592104.62	654.13

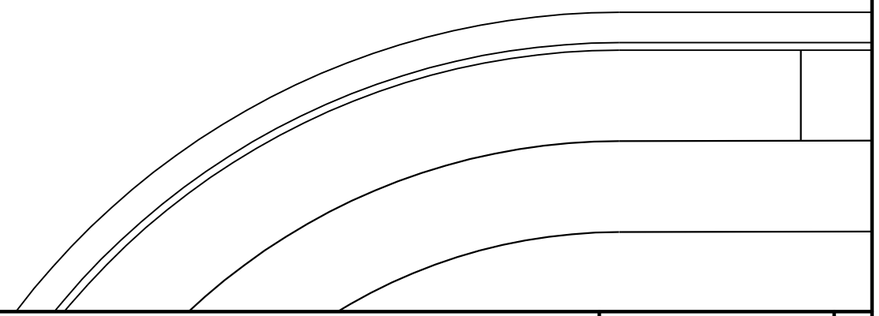
STATION & OFFSET TABLE							
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
13	499+09.75	59.50 RT	120+16.53	87.09 RT	350486.11	592110.54	653.96
14	499+09.84	64.62 RT	120+11.48	87.06 RT	350480.99	592110.62	654.01
15	499+09.84	71.50 RT	120+04.70	86.89 RT	350474.11	592110.60	654.08
16	499+14.64	67.19 RT	120+08.83	91.79 RT	350478.41	592115.41	653.91
17	499+11.80	72.48 RT	120+03.69	88.83 RT	350473.13	592112.56	653.94
18	499+13.54	73.41 RT	120+02.73	90.55 RT	350472.19	592114.30	653.91

STH 100 (W. BROWN DEER ROAD)

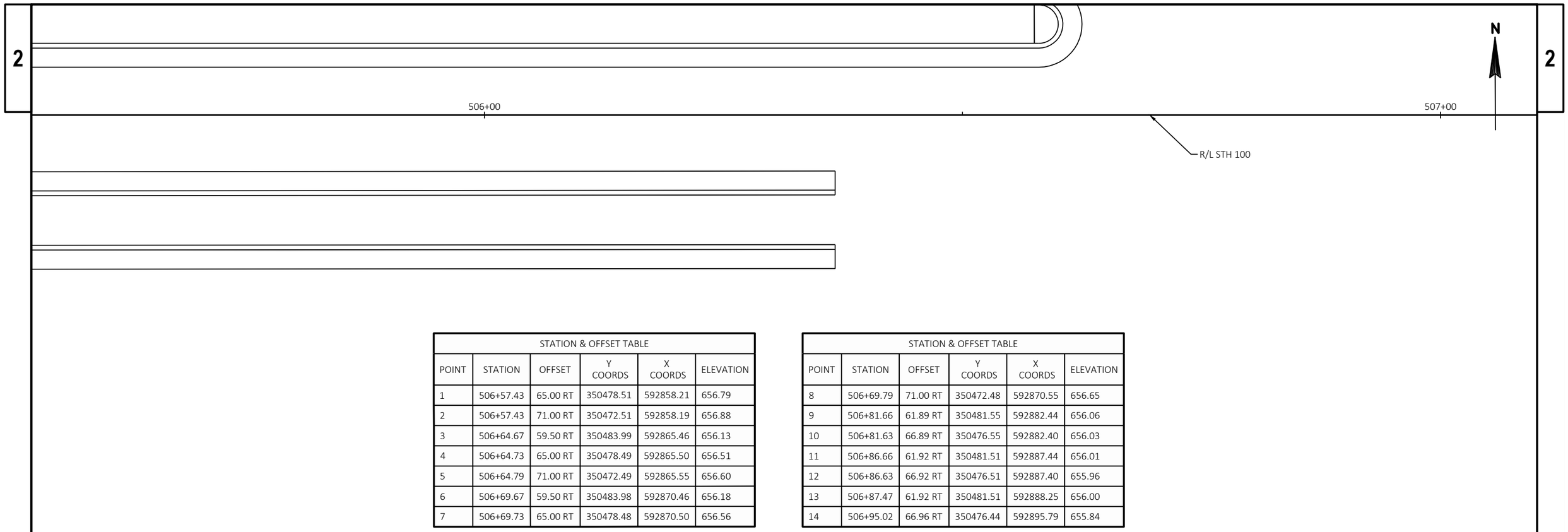
STH 57 (N. GREEN BAY ROAD)







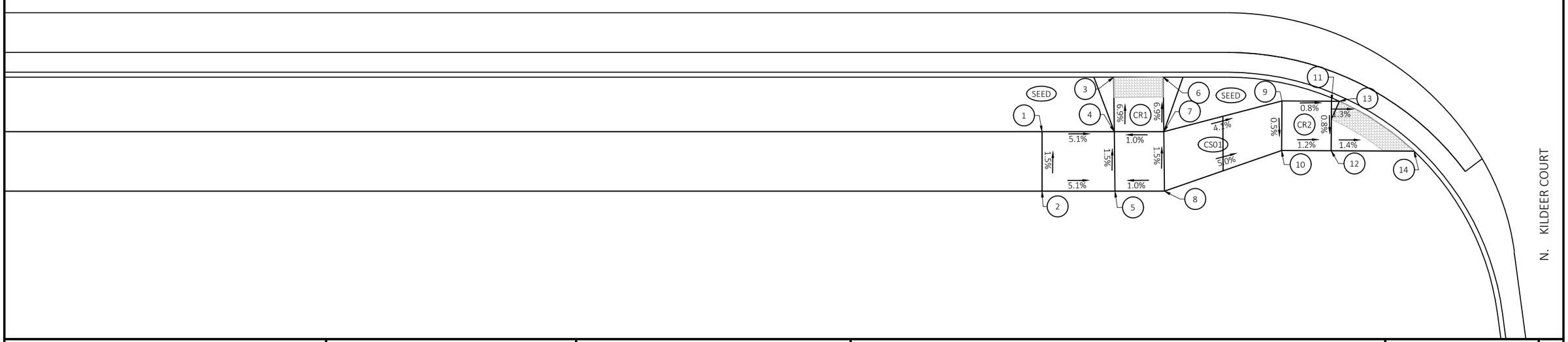
PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CURB RAMP DETAILS	SHEET 48	E



STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
1	506+57.43	65.00 RT	350478.51	592858.21	656.79
2	506+57.43	71.00 RT	350472.51	592858.19	656.88
3	506+64.67	59.50 RT	350483.99	592865.46	656.13
4	506+64.73	65.00 RT	350478.49	592865.50	656.51
5	506+64.79	71.00 RT	350472.49	592865.55	656.60
6	506+69.67	59.50 RT	350483.98	592870.46	656.18
7	506+69.73	65.00 RT	350478.48	592870.50	656.56

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
8	506+69.79	71.00 RT	350472.48	592870.55	656.65
9	506+81.66	61.89 RT	350481.55	592882.44	656.06
10	506+81.63	66.89 RT	350476.55	592882.40	656.03
11	506+86.66	61.92 RT	350481.51	592887.44	656.01
12	506+86.63	66.92 RT	350476.51	592887.40	655.96
13	506+87.47	61.92 RT	350481.51	592888.25	656.00
14	506+95.02	66.96 RT	350476.44	592895.79	655.84

STH 100 (W. BROWN DEER ROAD)



PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CURB RAMP DETAILS	SHEET 49	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\021102_ID.DWG
LAYOUT NAME - 021131

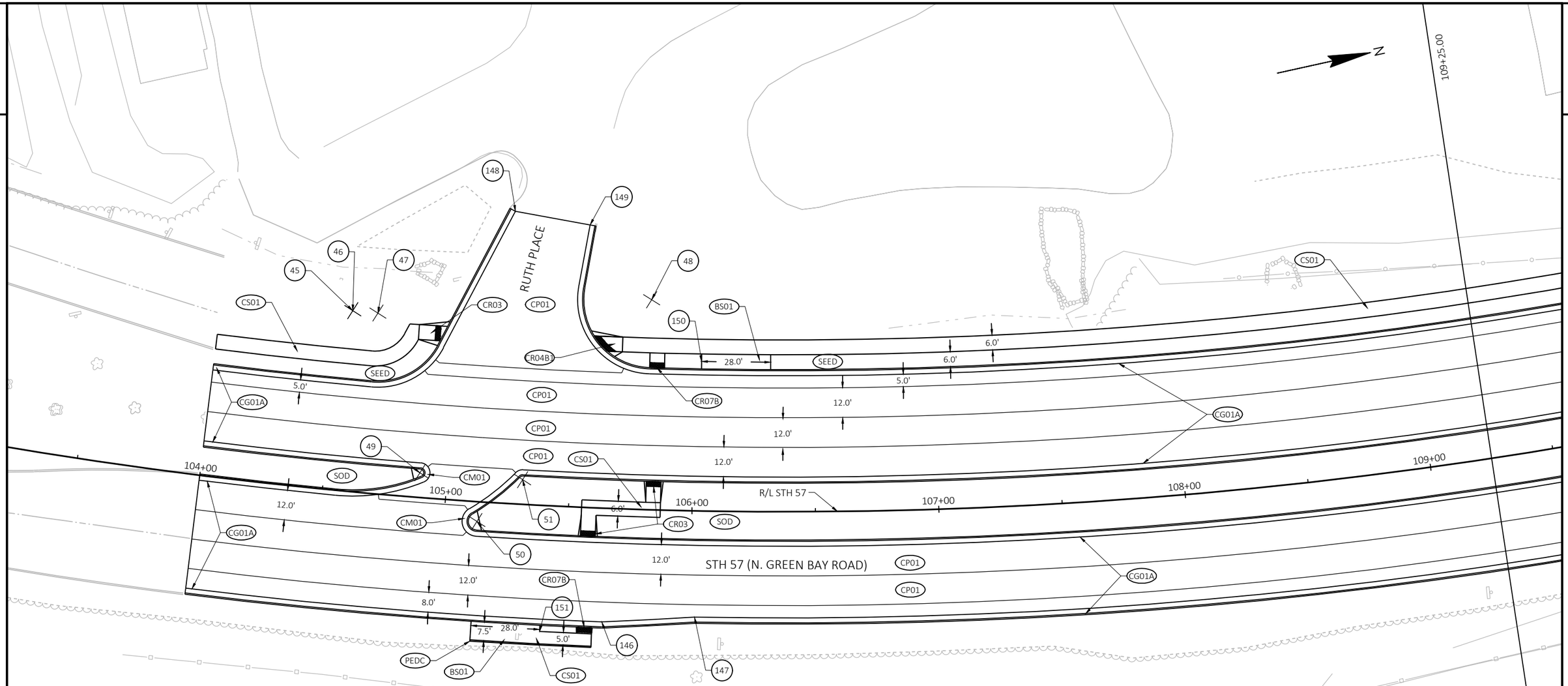
PLOT DATE : 3/19/2021 5:09 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:10 FT

LEGEND

AP01	HMA PAVEMENT 7-INCH
AP02	HMA PAVEMENT 4-INCH
AP03	ASPHALTIC SURFACE TEMPORARY, 5-INCH
BS01	ADA BUS STOP PAD
CG01A	CONCRETE CURB AND GUTTER 30-INCH TYPE A
CG01D	CONCRETE CURB AND GUTTER 30-INCH TYPE D
CG02G	CONCRETE CURB AND GUTTER 6-INCH SLOPED 30-INCH TYPE G
CG03A	CONCRETE CURB AND GUTTER 18-INCH TYPE A
CG03D	CONCRETE CURB AND GUTTER 18-INCH TYPE D
CG04D	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
CM01	CONCRETE MEDIAN SLOPED NOSE TYPE 1
CM02	CONCRETE MEDIAN SLOPED NOSE TYPE 2
CP01	CONCRETE PAVEMENT 8-INCH
CR02	CURB RAMP TYPE 2
CR03	CURB RAMP TYPE 3
CR04B1	CURB RAMP TYPE 4B1
CR05	CURB RAMP TYPE 5
CR06	CURB RAMP TYPE 6
CR07B	CURB RAMP TYPE 7B
CR08	CURB RAMP TYPE 8
CS01	CONCRETE SIDEWALK 5-INCH
DR01	CONCRETE DRIVEWAY 6-INCH
OV01	CONCRETE MASONRY OVERLAY APPROACHES
PEDC	CONCRETE CURB PEDESTRIAN
SEED	SEEDING MIXTURE No. 40, FERTILIZER, E-MAT/MULCH
SOD	SOD LAWN
SP01	TRAFFIC SIGNAL VEHICLE PAD

*ALL CURB AND GUTTER RADII ARE DIMENSIONED TO FACE OF CURB

2



STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
45	104+55.39	73.00 LT	348955.59	591859.21	73'
46	104+55.39	73.00 LT	348955.59	591859.21	95'
47	104+66.00	73.00 LT	348965.31	591862.35	28'
48	105+81.15	85.00 LT	349074.70	591881.27	28'
49	104+88.86	10.00 LT	348967.81	591929.15	2'
50	105+13.31	8.00 RT	348986.05	591953.41	4'
51	105+30.80	10.00 LT	349007.82	591940.95	2'

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
146	105+65.16	46.00 RT	349026.53	592004.11	--
147	106+01.39	43.00 RT	349063.63	592010.42	--
148	105+21.22	118.28 LT	349028.66	591834.30	--
149	105+53.66	114.34 LT	349056.94	591846.28	--
150	106+02.80	60.50 LT	349089.00	591910.07	--
151	105+40.79	51.00 RT	349001.09	592002.41	--

2

N

115+00.00

CS01

SEED

6.0'

6.0'

CP01

CP01

CP01

12.0'

12.0'

12.0'

5.0'

CG01A

9+00

110+00

R/L STH 57

111+00

112+00

113+00

114+00

115+00

SOD

2

3

CP01

CP01

12.0'

12.0'

5.0'

STH 57 (N. GREEN BAY ROAD)

CG01A

CP01

12.0'

12.0'

12.0'

5.0'

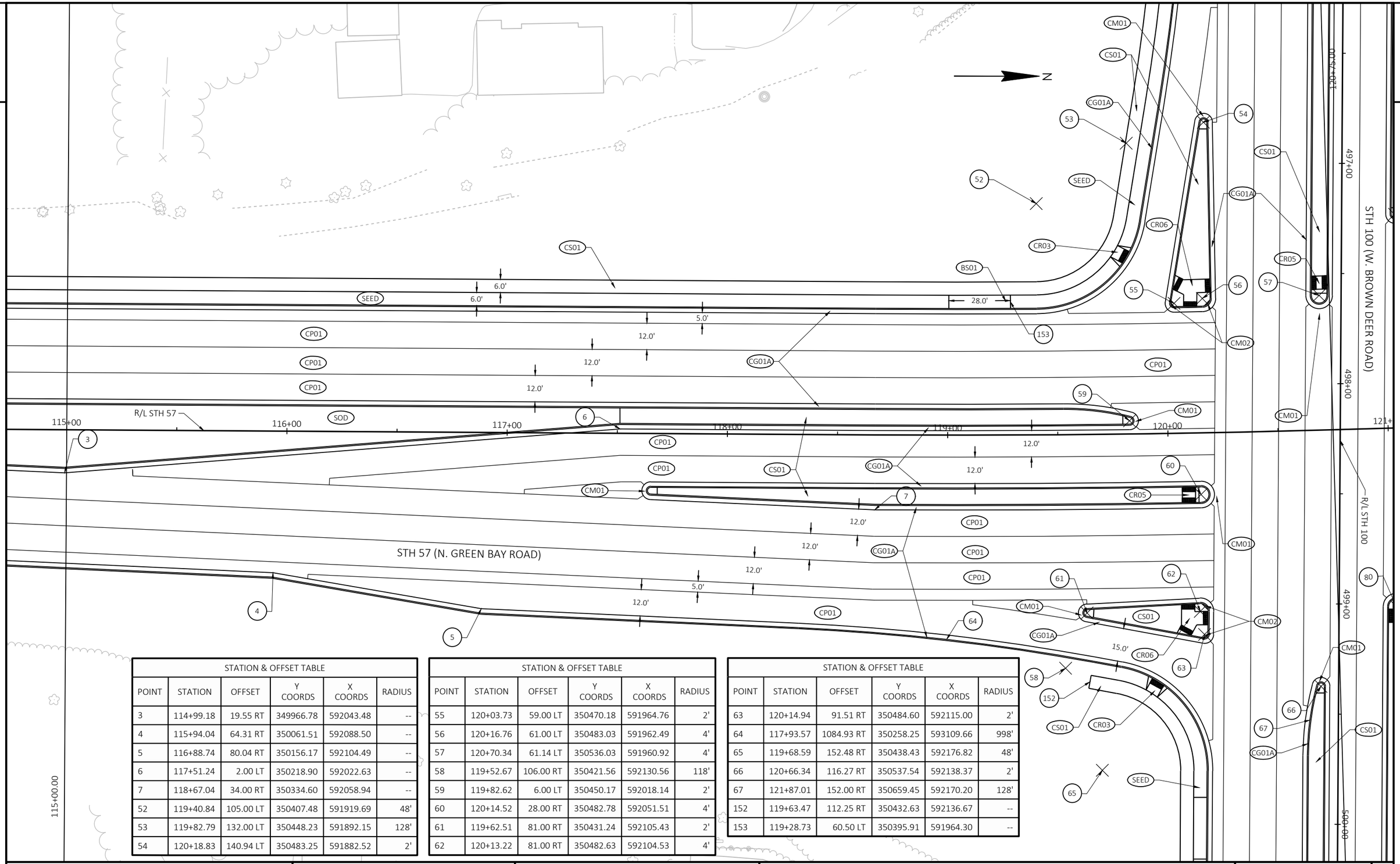
1

POST

109+25.00

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
1	110+51.79	43.00 RT	349519.32	592065.71	--
2	113+58.00	14.00 RT	349825.61	592037.55	--
3	114+99.18	19.55 RT	349966.78	592043.48	--

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PLAN DETAILS	SHEET 52	E

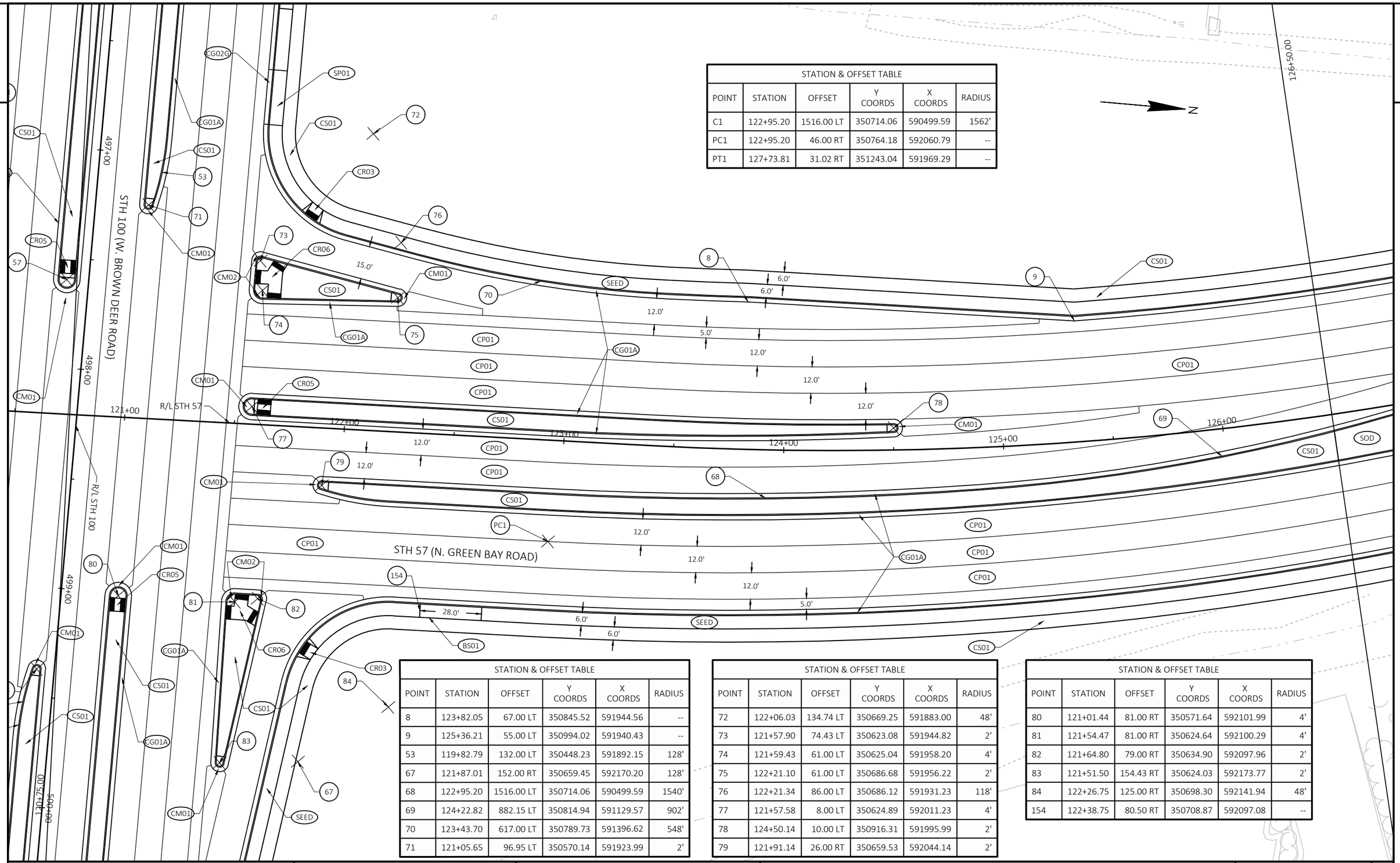


STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
3	114+99.18	19.55 RT	349966.78	592043.48	--
4	115+94.04	64.31 RT	350061.51	592088.50	--
5	116+88.74	80.04 RT	350156.17	592104.49	--
6	117+51.24	2.00 LT	350218.90	592022.63	--
7	118+67.04	34.00 RT	350334.60	592058.94	--
52	119+40.84	105.00 LT	350407.48	591919.69	48'
53	119+82.79	132.00 LT	350448.23	591892.15	128'
54	120+18.83	140.94 LT	350483.25	591882.52	2'

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
55	120+03.73	59.00 LT	350470.18	591964.76	2'
56	120+16.76	61.00 LT	350483.03	591962.49	4'
57	120+70.34	61.14 LT	350536.03	591960.92	4'
58	119+52.67	106.00 RT	350421.56	592130.56	118'
59	119+82.62	6.00 LT	350450.17	592018.14	2'
60	120+14.52	28.00 RT	350482.78	592051.51	4'
61	119+62.51	81.00 RT	350431.24	592105.43	2'
62	120+13.22	81.00 RT	350482.63	592104.53	4'

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
63	120+14.94	91.51 RT	350484.60	592115.00	2'
64	117+93.57	1084.93 RT	350258.25	593109.66	998'
65	119+68.59	152.48 RT	350438.43	592176.82	48'
66	120+66.34	116.27 RT	350537.54	592138.37	2'
67	121+87.01	152.00 RT	350659.45	592170.20	128'
152	119+63.47	112.25 RT	350432.63	592136.67	--
153	119+28.73	60.50 LT	350395.91	591964.30	--

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PLAN DETAILS	SHEET 53	E



STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
C1	122+95.20	1516.00 LT	350714.06	590499.59	1562'
PC1	122+95.20	46.00 RT	350764.18	592060.79	--
PT1	127+73.81	31.02 RT	351243.04	591969.29	--

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
8	123+82.05	67.00 LT	350845.52	591944.56	--
9	125+36.21	55.00 LT	350994.02	591940.43	--
53	119+82.79	132.00 LT	350448.23	591892.15	128'
67	121+87.01	152.00 RT	350659.45	592170.20	128'
68	122+95.20	1516.00 LT	350714.06	590499.59	1540'
69	124+22.82	882.15 LT	350814.94	591129.57	902'
70	123+43.70	617.00 LT	350789.73	591396.62	548'
71	121+05.65	96.95 LT	350570.14	591923.99	2'

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
72	122+06.03	134.74 LT	350669.25	591883.00	48'
73	121+57.90	74.43 LT	350623.08	591944.82	2'
74	121+59.43	61.00 LT	350625.04	591958.20	4'
75	122+21.10	61.00 LT	350686.68	591956.22	2'
76	122+21.34	86.00 LT	350686.12	591931.23	118'
77	121+57.58	8.00 LT	350624.89	592011.23	4'
78	124+50.14	10.00 LT	350916.31	591995.99	2'
79	121+91.14	26.00 RT	350659.53	592044.14	2'

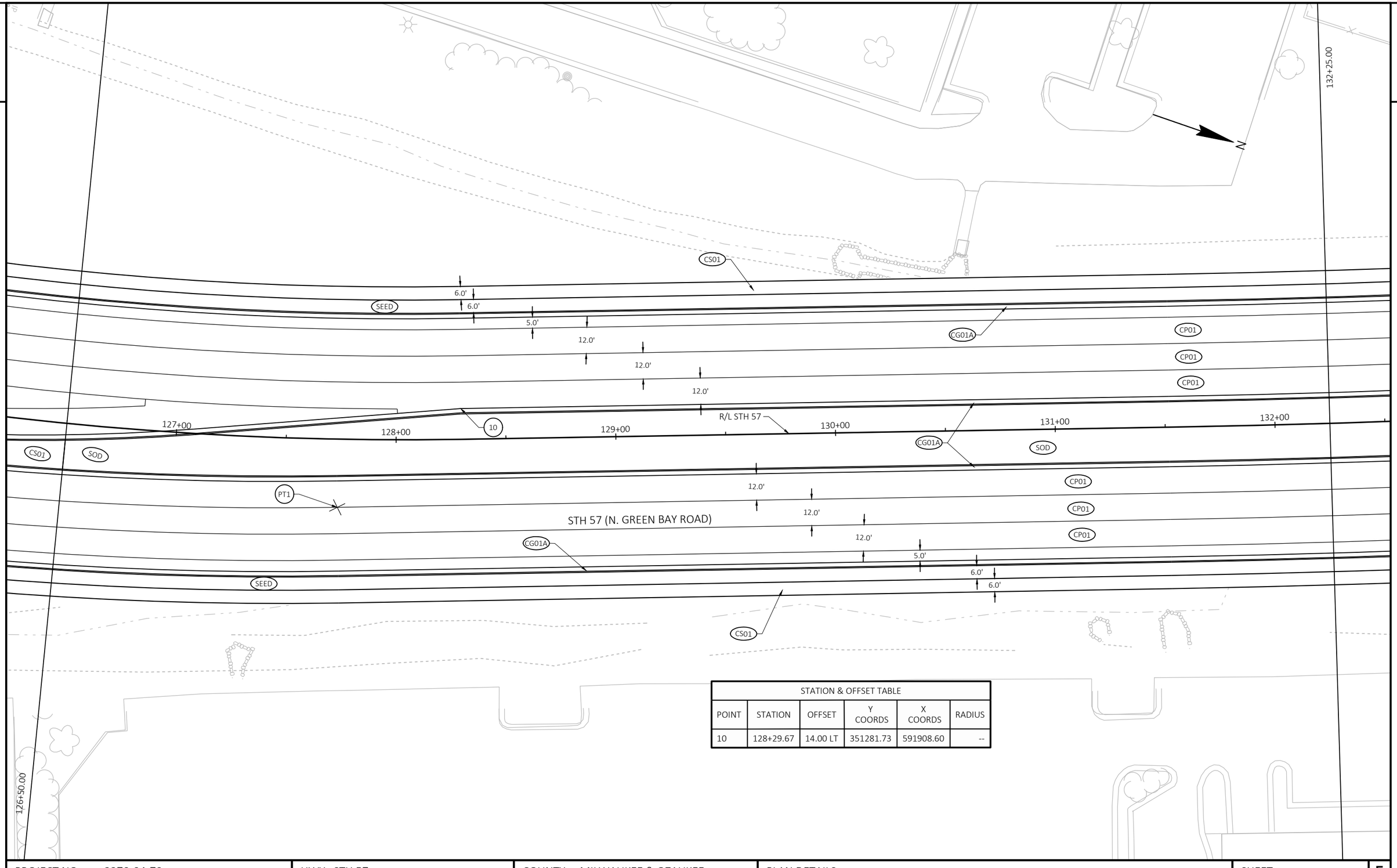
STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
80	121+01.44	81.00 RT	350571.64	592101.99	4'
81	121+54.47	81.00 RT	350624.64	592100.29	4'
82	121+64.80	79.00 RT	350634.90	592097.96	2'
83	121+51.50	154.43 RT	350624.03	592173.77	2'
84	122+26.75	125.00 RT	350698.30	592141.94	48'
154	122+38.75	80.50 RT	350708.87	592097.08	--

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PLAN DETAILS	SHEET 54 E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 021204
PLOT DATE : 3/25/2021 3:50 PM
PLOT BY : TONY BUBLITZ
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

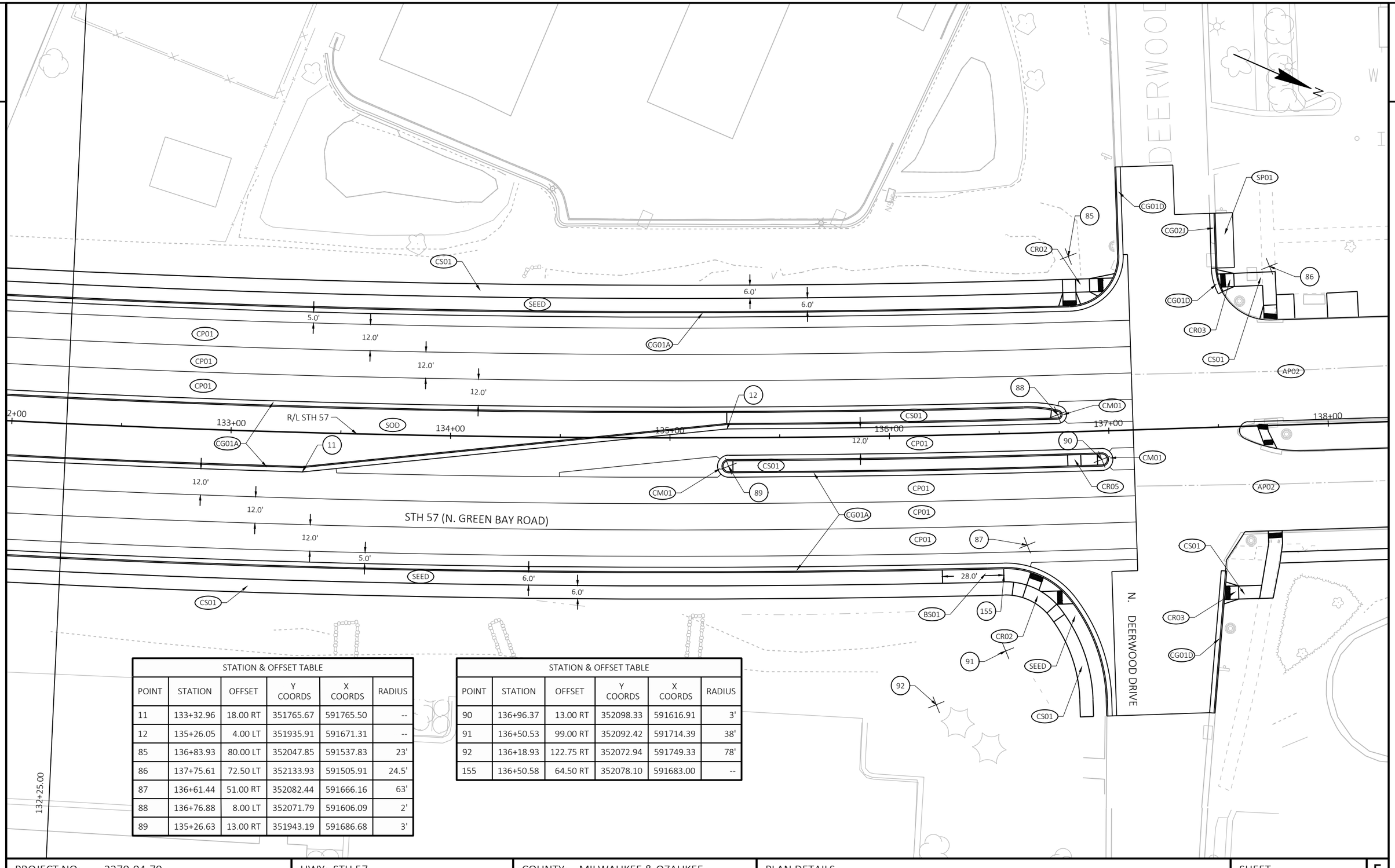


STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
10	128+29.67	14.00 LT	351281.73	591908.60	--

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PLAN DETAILS	SHEET 55	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\021201_PD.DWG
LAYOUT NAME - 021205

PLOT DATE : 3/25/2021 3:51 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT



STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
11	133+32.96	18.00 RT	351765.67	591765.50	--
12	135+26.05	4.00 LT	351935.91	591671.31	--
85	136+83.93	80.00 LT	352047.85	591537.83	23'
86	137+75.61	72.50 LT	352133.93	591505.91	24.5'
87	136+61.44	51.00 RT	352082.44	591666.16	63'
88	136+76.88	8.00 LT	352071.79	591606.09	2'
89	135+26.63	13.00 RT	351943.19	591686.68	3'

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
90	136+96.37	13.00 RT	352098.33	591616.91	3'
91	136+50.53	99.00 RT	352092.42	591714.39	38'
92	136+18.93	122.75 RT	352072.94	591749.33	78'
155	136+50.58	64.50 RT	352078.10	591683.00	--

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PLAN DETAILS	SHEET 56	E

2

2

STA 173+40.92, 58.9' LT

EXISTING CURB AND GUTTER TO REMAIN

EXISTING CURB AND GUTTER TO REMAIN

STA 174+95, 30.6' RT

EXISTING CURB AND GUTTER TO REMAIN

3+24.23

174+00

175+00

176+00

STH 57 (GREEN BAY ROAD)

655.55

655.38

655.57

655.71

655.92

655.78

656.05

656.14

655.82

656.03

656.00

656.03

656.20

656.23

655.49

656.03

656.09

655.30

656.01

655.87

655.94

656.40

656.70

655.42

AP01

656.16

655.36

655.83

656.30

655.35

655.60

655.51

656.02

655.79

655.79

656.49

655.43

655.41

656.31

655.79

655.93

655.38

656.17

656.30

655.28

655.33

655.37

655.81

655.62

655.66

655.62

655.76

655.89

655.83

AP02

CG01D

EXISTING CURB AND GUTTER TO REMAIN

STA 172+88.24, 86.3' RT

COUNTY LINE ROAD

SIGN

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PLAN DETAILS	SHEET 57	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\021002_PG.DWG
LAYOUT NAME - 021002_CD - 021002-3

PLOT DATE : 4/7/2021 10:00 AM PLOT BY : JOHNATHAN OLSON PLOT NAME : PLOT SCALE : 1 IN:20 FT

2

2

STA 222+73, 2.0' RT

STH 57 (GREEN BAY ROAD)

658.98

222+00				223+00				224+00			225+00
658.60	658.73	658.85	658.94	659.11	659.25	659.41	659.60	659.81	660.05	660.31	660.60	660.91
				659.06	659.18	659.33	659.51	659.71	659.94	660.19	660.47	660.77
658.36	658.47	658.59	658.70	658.82	658.95	659.10	659.28	659.48	659.71	659.96	660.23	660.53
658.16	658.27	658.39	658.50	658.62	658.74	658.90	659.07	659.27	659.50	659.75	660.03	660.32

AP02

AP01

11.8'

5.4'

POST

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PLAN DETAILS	SHEET 58	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\021002_PG.DWG
LAYOUT NAME - 021002_CD - 021002-3

PLOT DATE : 4/7/2021 10:00 AM PLOT BY : JOHNATHAN OLSON PLOT NAME : PLOT SCALE : 1 IN:20 FT

2

STA 227+73.91, 12' LT

STA 226+90.27, 9.36' RT

POST

POST

225+00

226+00

227+00

660.60 660.91 661.29 661.55 661.88 662.20 662.53 662.85 663.17 663.50 663.81 664.10 664.35

660.47 660.77 661.13 661.39 661.70 662.02 662.33 662.64 662.95 663.27 663.57 663.85 664.09

660.23 660.53 660.90 661.16 661.47 661.79 662.10 662.41 662.73 663.04 663.35 663.62 663.87

660.03 660.32 660.69 661.04 661.70 661.99 662.30 662.62 662.93 663.24 663.52 663.76

660.80 660.97 661.26 661.48 663.32 663.67 663.98 664.26

660.92 661.30 661.44

STH 57 (GREEN BAY ROAD)

AP01

AP02

AP01

CG04D

CG04D

11.5'

5.6'

R25.0'

R25.0'

36.0'

STA 225+71.65, 65.0' RT

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PLAN DETAILS	SHEET 59	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\021002_PG.DWG
LAYOUT NAME - 021002_CD - 021002-3

PLOT DATE : 4/7/2021 10:00 AM PLOT BY : JOHNATHAN OLSON PLOT NAME : PLOT SCALE : 1 IN:20 FT

2

2

STA 228+92.93, 24.37' RT

STA 228+17.77

STA 228+52.49, 11' RT

CG03D

STA 230+52.52, 11' RT

R37.0'

664.40

664.51

664.77

664.71

664.61

664.57

Pi: 229+72.15

13.0'

665.00

664.95

664.86

664.75

12.0'

64.35

228+00

664.93

665.06

229+00

665.23

665.27

665.27

230+00

665.19

665.10

664.99

664.26

664.58

664.52

664.77

665.16

665.24

STH 57 (GREEN BAY ROAD)

11.0'

4.0'

664.09

664.30

664.48

664.63

664.84

664.76

AP02

664.94

664.86

665.01

664.93

665.05

664.97

665.05

664.97

665.02

664.94

664.97

664.89

664.88

664.80

664.69

11.0'

663.87

664.08

664.26

664.41

664.54

664.64

AP01

664.71

664.75

664.75

664.72

664.67

664.58

664.47

5.0'

663.76

663.98

664.16

664.31

664.44

664.54

664.61

664.65

664.65

664.55

664.48

664.31

5.0'

664.30

CS01

663.97

664.05

3.0'

663.76

663.56

663.53

663.15

663.53

663.37

663.37

CG04D

SP01

SIGN

CG04D

662.81

R51.0'

662.97

662.20

11.0'

662.25

DONGES BAY ROAD

662.42

11.0'

661.93

661.61

11.0'

STA 51+36.56, 14' RT

662.09

661.70

661.46

661.52

661.86

661.68

FILLER

CAPS

FILLER

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PLAN DETAILS	SHEET 60	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\021002_PG.DWG
LAYOUT NAME - 021002_CD - 021002-3

PLOT DATE : 4/7/2021 10:00 AM PLOT BY : JOHNATHAN OLSON PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 42

2

2

STH 57 (GREEN BAY ROAD)

STA 232+25, 24' LT

STA 233+14.01, 4' RT

STA 233+15.10, 31' RT

STA 50+64.66, 22' LT

CG04D

CS01

AP01

AP02

R40.0'

R57.0'

R54.0'

R5.0'

R4.0'

R51.0'

19.6'

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PLAN DETAILS	SHEET 61	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\021002_PG.DWG
LAYOUT NAME - 021002_CD - 021002-3

PLOT DATE : 4/7/2021 10:01 AM PLOT BY : JOHNATHAN OLSON PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 42

2

2

234+00

235+00

236+00

663.54 663.37 663.19 663.00 662.81 662.63 662.44 662.27 662.11 661.96 661.82 661.70

AP02

663.27 663.11 662.94 662.76 662.59 662.41 662.24 662.07 661.92 661.79 661.66 661.55

10.4'

STH 57 (GREEN BAY ROAD)

AP01

663.03 662.87 662.70 662.52 662.35 662.17 662.00 661.83 661.68 661.55 661.42 661.31

12.0'

5.0'

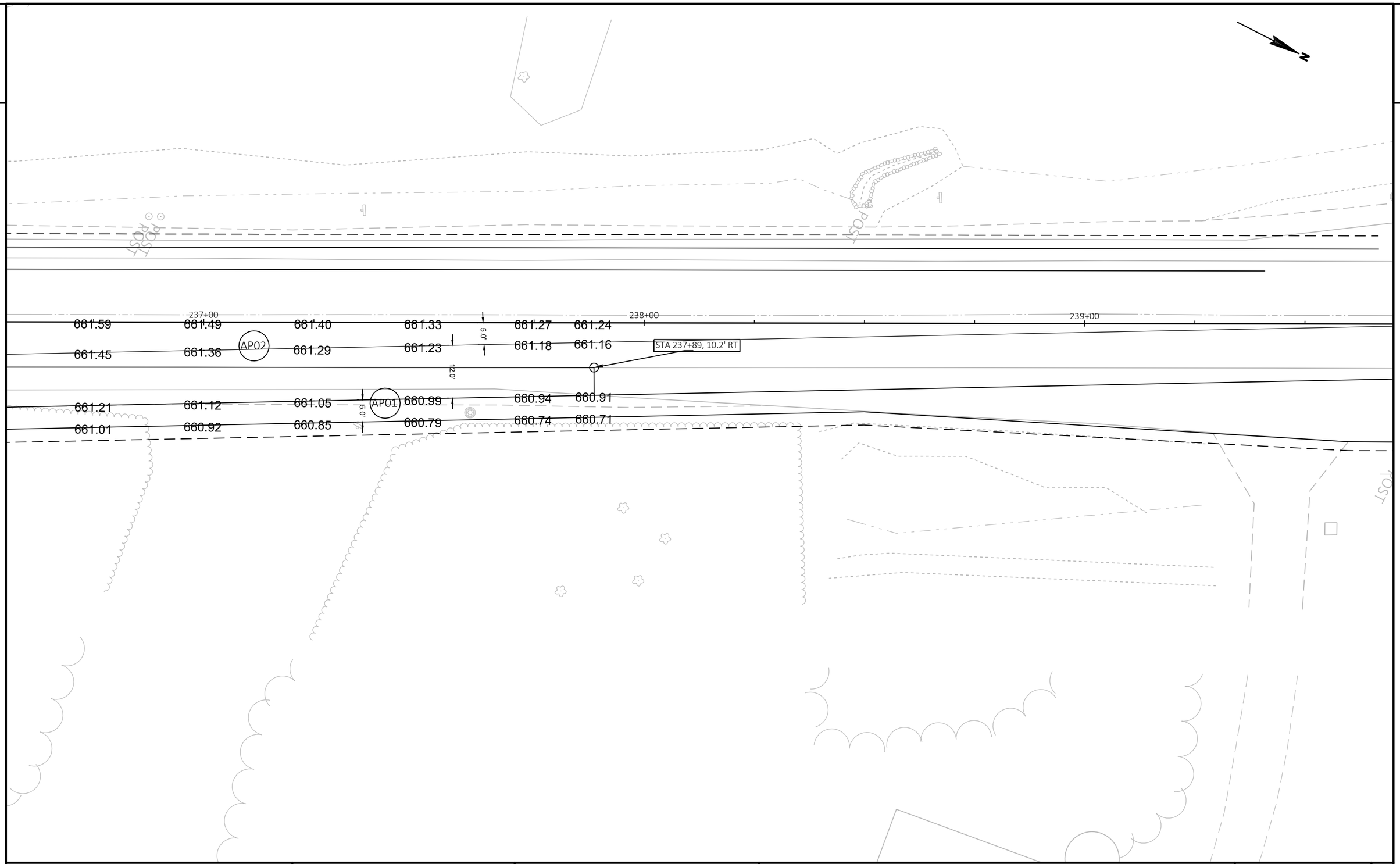
662.83 662.67 662.50 662.32 662.15 661.97 661.80 661.63 661.48 661.35 661.22 661.11

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PLAN DETAILS	SHEET 62	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\021002_PG.DWG
LAYOUT NAME - 021002_CD - 021002-3

PLOT DATE : 4/7/2021 10:01 AM PLOT BY : JOHNATHAN OLSON PLOT NAME : PLOT SCALE : 1 IN:20 FT

2



PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PLAN DETAILS	SHEET 63	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\021002_PG.DWG
LAYOUT NAME - 021002_CD - 021002-3

PLOT DATE : 4/7/2021 10:01 AM PLOT BY : JOHNATHAN OLSON PLOT NAME : PLOT SCALE : 1 IN:20 FT

2

2

STA 281+98.20
EOP - TIE INTO EXISTING PAVEMENT

PT: 281+98.20

280+00

281+00

282+00

STH 57 (GREEN BAY ROAD)

AP02

TNL

SIGN

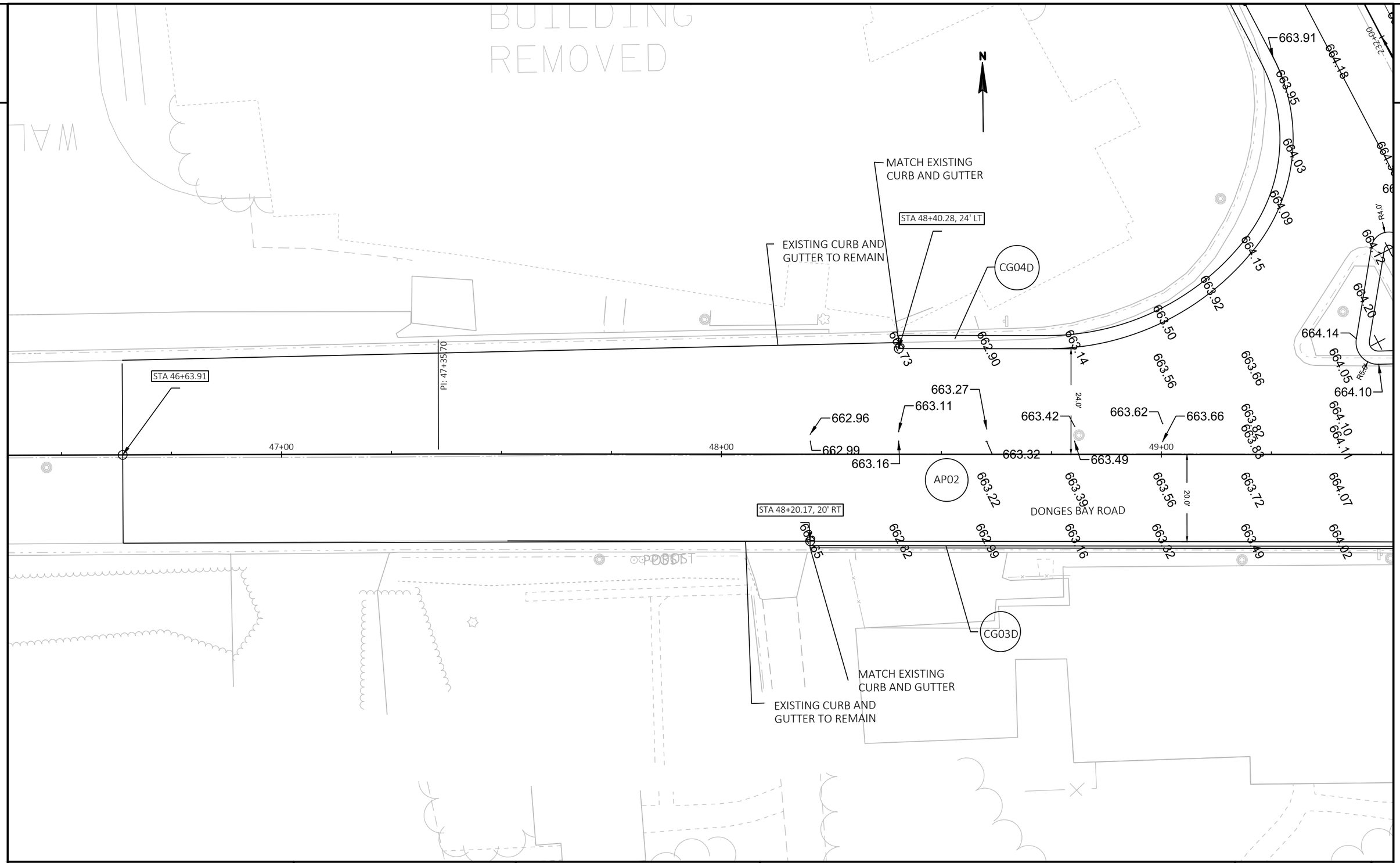
PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PLAN DETAILS	SHEET 64	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\021002_PG.DWG
LAYOUT NAME - 021002_CD - 021002-3

PLOT DATE : 4/7/2021 10:01 AM PLOT BY : JOHNATHAN OLSON PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 42

2



PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PLAN DETAILS	SHEET 65	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\021002_PG.DWG
LAYOUT NAME - 021002_CD - 021002-3
PLOT DATE : 4/7/2021 10:02 AM
PLOT BY : JOHNATHAN OLSON
PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 42

2

2

N

CG04D

STA 50+64.66, 22' LT

STA 52+57.05

AP01

AP02

STA 51+36.56, 14' RT

STA 230+52.52, 11' LT

STH 57 (GREEN BAY ROAD)

50+00

51+00

52+00

664.42 664.54 664.28 664.65 664.76 664.88 664.99 665.10 665.19 665.24

663.56 664.05 663.37 663.15 663.76 664.55

661.46

11.0' 12.0' 13.0' 5.0' 3.0'

R4.0' R6.0' R37.0' R51.0'

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PLAN DETAILS	SHEET 66	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\021002_PG.DWG
LAYOUT NAME - 021002_CD - 021002-3

PLOT DATE : 4/7/2021 10:02 AM PLOT BY : JOHNATHAN OLSON PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 42

2

N ARBON DR

N

481+50.00

476+00

477+00

478+00

479+00

480+00

481+00

157

SOD

CM01

156

158

CG01D

CG01D

STH 100 (W. BROWN DEER ROAD)

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
156	476+38.30	14.40 RT	350264.40	589866.24	--
157	477+65.72	8.48 LT	350297.89	589991.37	--
158	480+77.74	3.43 RT	350328.09	590301.90	--

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
21	483+57.12	72.50 LT	350458.51	590557.89	--
23	483+87.51	17.00 LT	350411.67	590600.43	--
24	483+45.48	11.00 RT	350374.61	590566.09	--
25	484+52.86	7.00 LT	350417.25	590666.31	--
27	483+80.91	72.50 RT	350323.11	590614.97	--

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
28	486+28.26	76.50 LT	350525.89	590820.56	--
161	484+46.68	11.50 LT	350420.18	590659.24	--
162	485+06.40	72.50 LT	350493.47	590703.02	--
163	486+15.63	58.00 LT	350504.95	590812.61	--

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
93	486+42.63	83.00 LT	350535.57	590833.01	23'
94	487+32.63	82.96 LT	350556.61	590920.51	23'
95	485+93.80	58.00 RT	350387.06	590818.55	73'
96	486+10.54	11.00 LT	350458.06	590818.66	2'
97	487+15.41	11.00 LT	350482.62	590920.62	4'
98	484+53.86	11.00 RT	350399.98	590671.49	4'
99	486+28.26	11.00 RT	350440.82	590841.05	4'

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
100	487+45.90	11.00 RT	350468.37	590955.41	2'
101	486+25.56	83.00 RT	350370.19	590855.28	25'
102	486+26.56	83.00 RT	350370.43	590856.26	23'
103	487+10.57	83.00 RT	350390.10	590937.92	23'
104	487+11.57	83.00 RT	350390.33	590938.90	25'
164	486+67.63	123.00 LT	350580.32	590847.94	--
165	487+07.66	122.97 LT	350589.66	590886.86	--

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
166	486+50.18	123.24 RT	350336.84	590888.63	--
167	486+86.18	123.59 RT	350344.93	590923.71	--
182	485+24.40	96.50 LT	350521.01	590714.90	20'
183	484+61.77	98.07 LT	350507.87	590653.64	20'
184	484+65.41	92.99 LT	350503.79	590658.37	30'

7-INCH OF BASE AGGREGATE DENSE 1 1/4-INCH
16-INCH OF SELECT CRUSHED MATERIAL

STH 100 (W. BROWN DEER ROAD)

CANADIAN NATIONAL RAILWAY

N. DEERBROOK TRAIL

R/L STH 100

482+00 483+00 484+00 485+00 486+00 487+00 487+25.00 481+50.00

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PLAN DETAILS	SHEET 68	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\021202_PD.DWG
LAYOUT NAME - 021208
PLOT DATE : 7/20/2021 4:14 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
PC1	488+25.27	28.92 RT	350469.40	591036.54	--
C1	491+14.35	1827.65 RT	348719.44	591458.04	1800'
PT1	492+62.08	27.98 RT	350519.43	591463.09	--

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
PC2	487+15.41	29.00 LT	350500.12	590916.40	--
PT2	494+88.32	44.00 LT	350590.80	591689.41	--
C2	494+88.32	3218.00 RT	347328.81	591680.25	3262'

N

STH 100 (W. BROWN DEER ROAD)

R/L STH 100

DEERWOOD DRIVE N.

487+25.00

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
29	488+46.81	6.74 RT	350495.73	591052.48	--
30	490+71.13	15.34 LT	350552.93	591270.88	--
31	488+46.52	5.26 LT	350507.39	591049.62	--
32	492+67.21	16.00 RT	350531.42	591468.16	--
33	492+69.21	57.00 RT	350490.41	591470.06	--
105	491+22.17	82.99 LT	350624.87	591317.13	23'
106	492+08.31	86.98 LT	350633.51	591406.71	23'
107	488+69.40	10.31 LT	350517.13	591071.03	2'

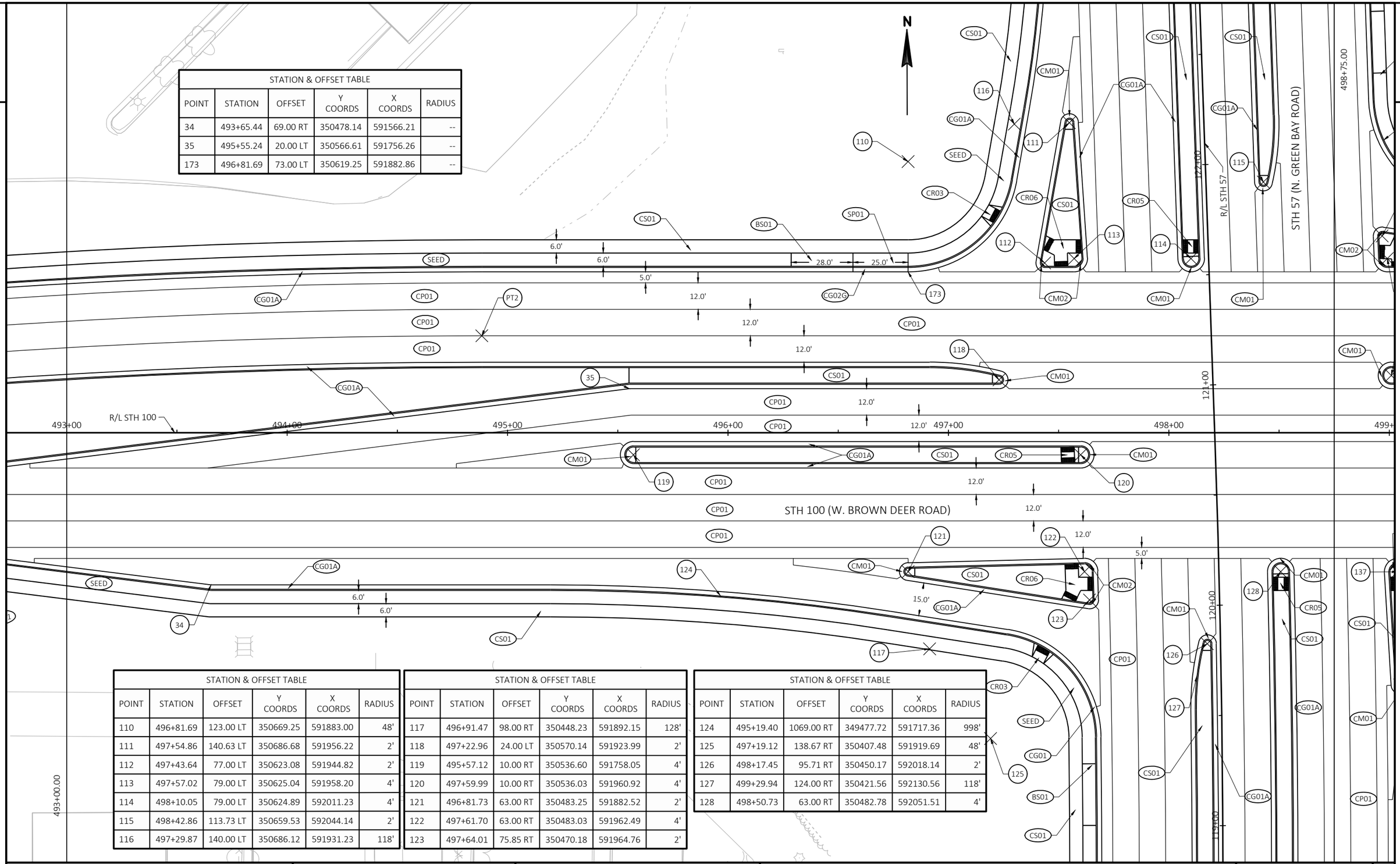
STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
108	491+36.52	81.65 RT	350461.65	591343.01	23'
109	492+23.20	81.83 RT	350465.15	591425.96	23'
168	488+72.78	11.04 RT	350496.91	591078.66	--
169	491+45.33	109.92 LT	350653.40	591339.55	--
170	491+83.14	111.41 LT	350656.97	591379.39	--
171	491+66.93	106.86 RT	350438.19	591373.38	--
172	491+97.30	104.30 RT	350441.98	591401.95	--
185	487+32.62	60.46 LT	350534.73	590925.77	--

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PLAN DETAILS	SHEET 69	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\021202_PD.DWG
LAYOUT NAME - 021209

PLOT DATE : 3/30/2021 1:46 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
34	493+65.44	69.00 RT	350478.14	591566.21	--
35	495+55.24	20.00 LT	350566.61	591756.26	--
173	496+81.69	73.00 LT	350619.25	591882.86	--



STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
110	496+81.69	123.00 LT	350669.25	591883.00	48'
111	497+54.86	140.63 LT	350686.68	591956.22	2'
112	497+43.64	77.00 LT	350623.08	591944.82	2'
113	497+57.02	79.00 LT	350625.04	591958.20	4'
114	498+10.05	79.00 LT	350624.89	592011.23	4'
115	498+42.86	113.73 LT	350659.53	592044.14	2'
116	497+29.87	140.00 LT	350686.12	591931.23	118'

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
117	496+91.47	98.00 RT	350448.23	591892.15	128'
118	497+22.96	24.00 LT	350570.14	591923.99	2'
119	495+57.12	10.00 RT	350536.60	591758.05	4'
120	497+59.99	10.00 RT	350536.03	591960.92	4'
121	496+81.73	63.00 RT	350483.25	591882.52	2'
122	497+61.70	63.00 RT	350483.03	591962.49	4'
123	497+64.01	75.85 RT	350470.18	591964.76	2'

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
124	495+19.40	1069.00 RT	349477.72	591717.36	998'
125	497+19.12	138.67 RT	350407.48	591919.69	48'
126	498+17.45	95.71 RT	350450.17	592018.14	2'
127	499+29.94	124.00 RT	350421.56	592130.56	118'
128	498+50.73	63.00 RT	350482.78	592051.51	4'

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PLAN DETAILS	SHEET 70	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\021202_PD.DWG
LAYOUT NAME - 021210
PLOT DATE : 3/30/2021 1:46 PM
PLOT BY : TONY BUBLITZ
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

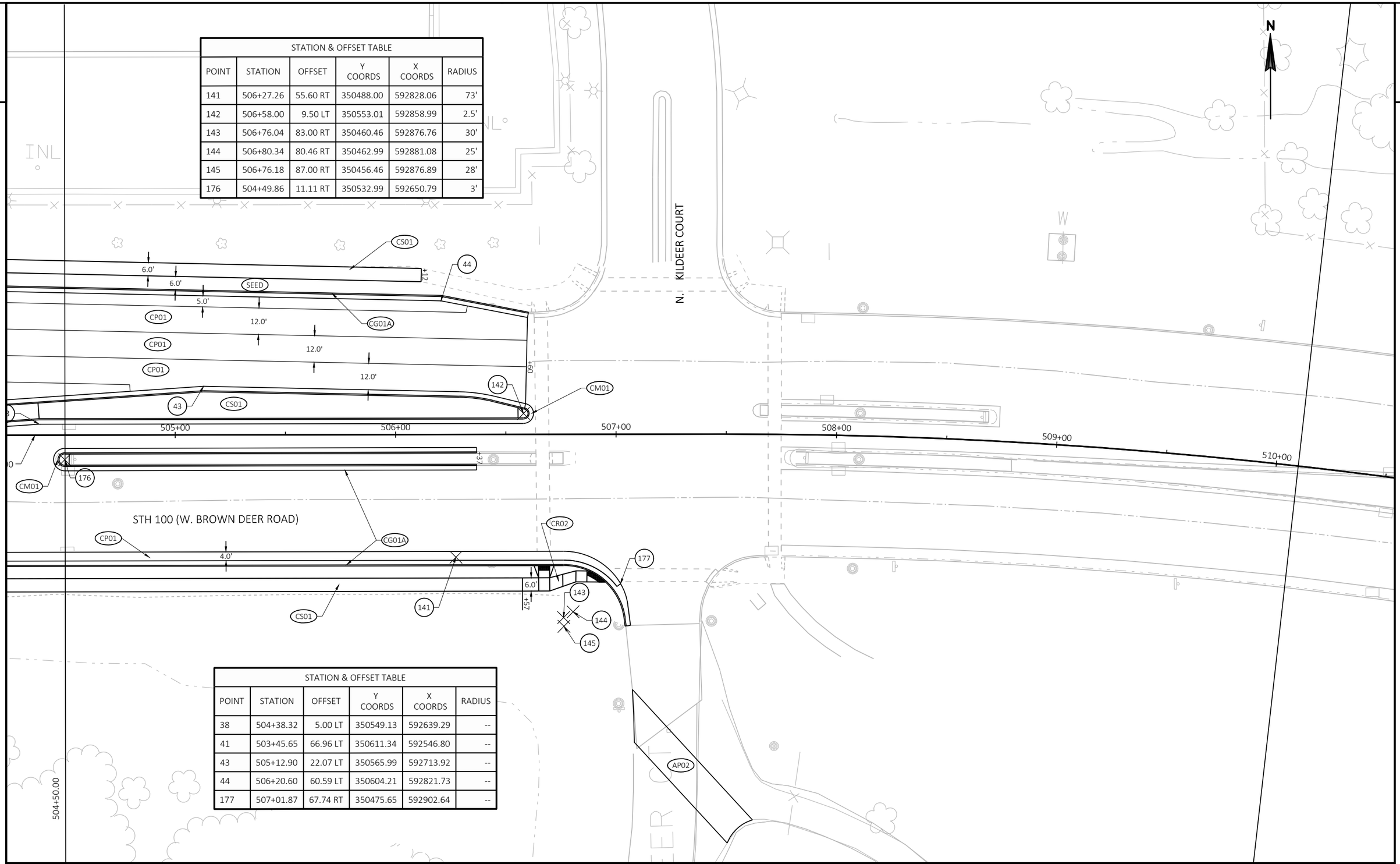
STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
129	499+40.55	152.78 LT	350698.30	592141.94	48'
130	498+96.74	89.25 LT	350634.90	592097.96	2'
131	498+99.10	79.00 LT	350624.64	592100.29	4'
132	499+72.59	78.59 LT	350624.03	592173.77	2'
133	499+00.95	26.00 LT	350571.64	592101.99	4'
134	501+55.28	26.35 LT	350571.27	592356.31	2'

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
135	499+37.43	8.00 RT	350537.54	592138.37	2'
136	499+68.92	114.00 LT	350659.45	592170.20	128'
137	499+03.74	63.00 RT	350482.63	592104.53	4'
138	499+14.21	61.00 RT	350484.60	592115.00	2'
139	499+04.79	114.39 RT	350431.24	592105.43	2'
140	499+76.16	107.00 RT	350438.43	592176.82	48'

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
36	501+20.06	20.00 LT	350565.02	592321.08	--
37	501+20.86	4.00 RT	350541.02	592321.81	--
38	504+38.32	5.00 LT	350549.13	592639.29	--
39	500+64.99	84.80 LT	350629.97	592266.19	--
40	502+49.95	81.17 LT	350625.83	592451.14	--
41	503+45.65	66.96 LT	350611.34	592546.80	--
42	500+89.11	96.05 LT	350641.16	592290.34	--
174	499+36.02	112.91 RT	350432.63	592136.67	--
175	499+88.16	62.49 RT	350482.91	592188.95	--

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
C3	500+15.49	5898.00 RT	344647.34	592199.87	5942'
PC3	500+15.49	44.00 LT	350589.32	592216.57	--
PT3	501+53.03	42.41 LT	350587.34	592354.10	--

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
141	506+27.26	55.60 RT	350488.00	592828.06	73'
142	506+58.00	9.50 LT	350553.01	592858.99	2.5'
143	506+76.04	83.00 RT	350460.46	592876.76	30'
144	506+80.34	80.46 RT	350462.99	592881.08	25'
145	506+76.18	87.00 RT	350456.46	592876.89	28'
176	504+49.86	11.11 RT	350532.99	592650.79	3'



STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
38	504+38.32	5.00 LT	350549.13	592639.29	--
41	503+45.65	66.96 LT	350611.34	592546.80	--
43	505+12.90	22.07 LT	350565.99	592713.92	--
44	506+20.60	60.59 LT	350604.21	592821.73	--
177	507+01.87	67.74 RT	350475.65	592902.64	--

2

2

N

515+90.00

510+10.00

MILWAUKEE RIVER

510+00

511+00

512+00

513+00

514+00

515+00

516+00

+87

OV01

HOT POURED JOINT SEALANT ($\frac{1}{4}$" BELOW SURFACE) CONFORMING TO STANDARD SPECIFICATION 415.2.6 BETWEEN APPROACH SLAB AND BRIDGE DECK. SEE SDD CONCRETE PAVEMENT APPROACH SLAB SECTION B-B.

STH 100 (W. BROWN DEER ROAD)

OV01

+77

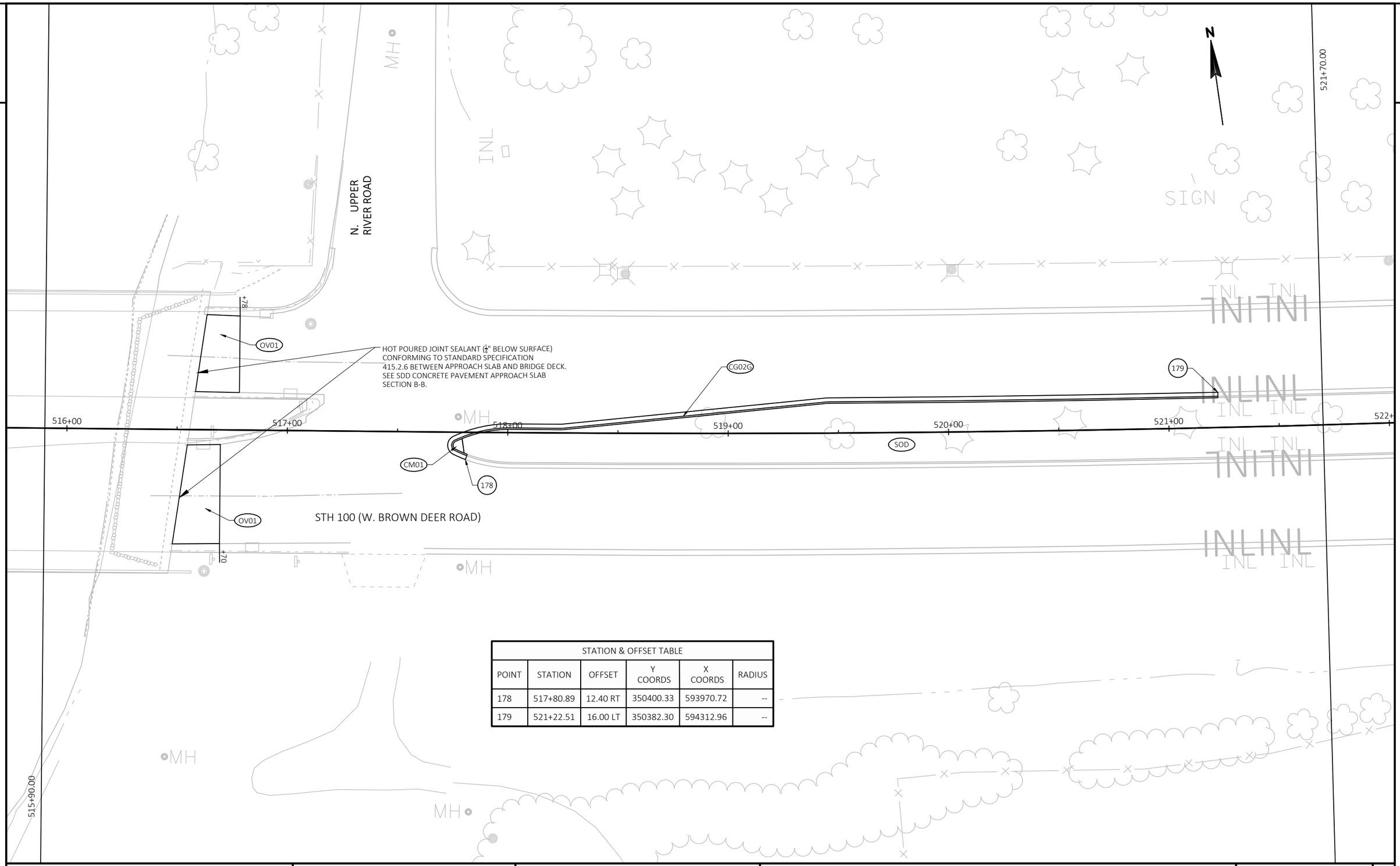
MILWAUKEE R.

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PLAN DETAILS	SHEET 73	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\021202_PD.DWG
LAYOUT NAME - 021213

PLOT DATE : 3/30/2021 1:47 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42



STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
178	517+80.89	12.40 RT	350400.33	593970.72	--
179	521+22.51	16.00 LT	350382.30	594312.96	--

2

2

N

522+00

523+00

524+00

525+00

526+00

527+00

SOD

CG02G

180

181

STH 100 (W. BROWN DEER ROAD)

521+70.00

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
180	522+78.86	16.00 RT	350333.12	594464.78	--
181	524+50.58	16.00 RT	350316.74	594635.98	--

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PLAN DETAILS	SHEET 75	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\021202_PD.DWG
LAYOUT NAME - 021215

PLOT DATE : 3/30/2021 1:47 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

STH 100 (W. BROWN DEER ROAD)

STH 57 (N. GREEN BAY ROAD)

R/L STH 100

R/L STH 57

R/L RAMP C

ADJUSTING INLET COVERS

AP03

SSPRC CLASS IV 12-INCH

T2
INLETS 3-FT
INLET COVERS TYPE H

T1
INLETS 3-F
INLET CO

ASPHALTIC CURB

SSPRC

7+00 8+00 9+00 10+00 11+00

121+00 122+00 123+00 124+00 125+00 126+00

497+00 498+00 499+00

653.38 654.65 655.72 655.88 655.48 654.96 654.51 654.17 653.81 653.52 653.19 653.12

655.76 655.78 655.55 655.34 654.78 654.35 653.98 653.67 653.33

652.71 654.38 652.63 652.49 652.45

10.5' 18.5'

0.5% 4% 2% 1% 1% 1% 1%

15 16 17 18

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
1	7+97.06	24.49 RT	350738.07	591857.23	--
2	8+99.63	16.06 RT	350840.62	591848.58	--
15	6+46.65	160.33 RT	350587.94	591993.38	--
16	6+60.03	82.30 RT	350601.16	591915.33	--
17	6+77.29	62.26 RT	350618.38	591895.25	--
18	7+79.98	35.16 RT	350721.01	591867.93	--

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PLAN DETAILS - TEMPORARY - STAGE 1	SHEET 76	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\021211_PD.DWG
LAYOUT NAME - 021251

PLOT DATE : 3/22/2021 7:57 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

1+00
12+00
13+00
14+00
15+00
16+00
17+00
126+50
127+00
128+00
129+00
130+00
131+00
132+00

653.19
653.12
652.87
653.06
652.71
653.15
652.65
653.42
653.40
652.66
652.39

T1
INLETS 3-FT
INLET COVERS TYPE H

AP03

18.5'

SSPRC CLASS IV 12-INCH

ASPHALTIC CURB

ADJUSTING INLET COVERS

REMOVING ASPHALT SURFACE (3")
REMOVING CONCRETE SURFACE PARTIAL DEPTH (1")
ASPHALTIC SURFACE TEMPORARY (4")

R/L RAMP C

R/L STH 57

STH 57 (N. GREEN BAY ROAD)

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
3	13+49.57	16.24 RT	351291.60	591844.54	--
19	13+02.62	37.73 RT	351244.94	591868.59	--
20	13+50.37	25.69 RT	351293.10	591853.91	--

2

2

N ARBON DR

481+50.00

N

EDGE OF TRAVEL LANE

WARP PAVEMENT TO DRAIN TO GUTTER

476+00

477+00

478+00

479+00

480+00

481+00

662.33

662.83

663.55

662.29

662.87

663.14

663.89

AP03

WARP PAVEMENT TO DRAIN TO GUTTER

STH 100 (W. BROWN DEER ROAD)

REMOVING CURB & GUTTER (TYP)

475+75.00

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PLAN DETAILS - TEMPORARY - STAGE 1	SHEET 78	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\021212_PD.DWG
LAYOUT NAME - 021254

PLOT DATE : 3/30/2021 3:04 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

487+25.00

665.22 665.45 665.80 666.01 666.31 666.59

1% 14' AP03 1%

665.08 665.31 665.66 666.20 666.58 666.91

21

482+00 483+00 484+00 485+00 486+00 487+00

STH 100 (W. BROWN DEER ROAD)

CANADIAN NATIONAL RAILWAY

N. DEERBROOK TRAIL TRAIL

481+50.00

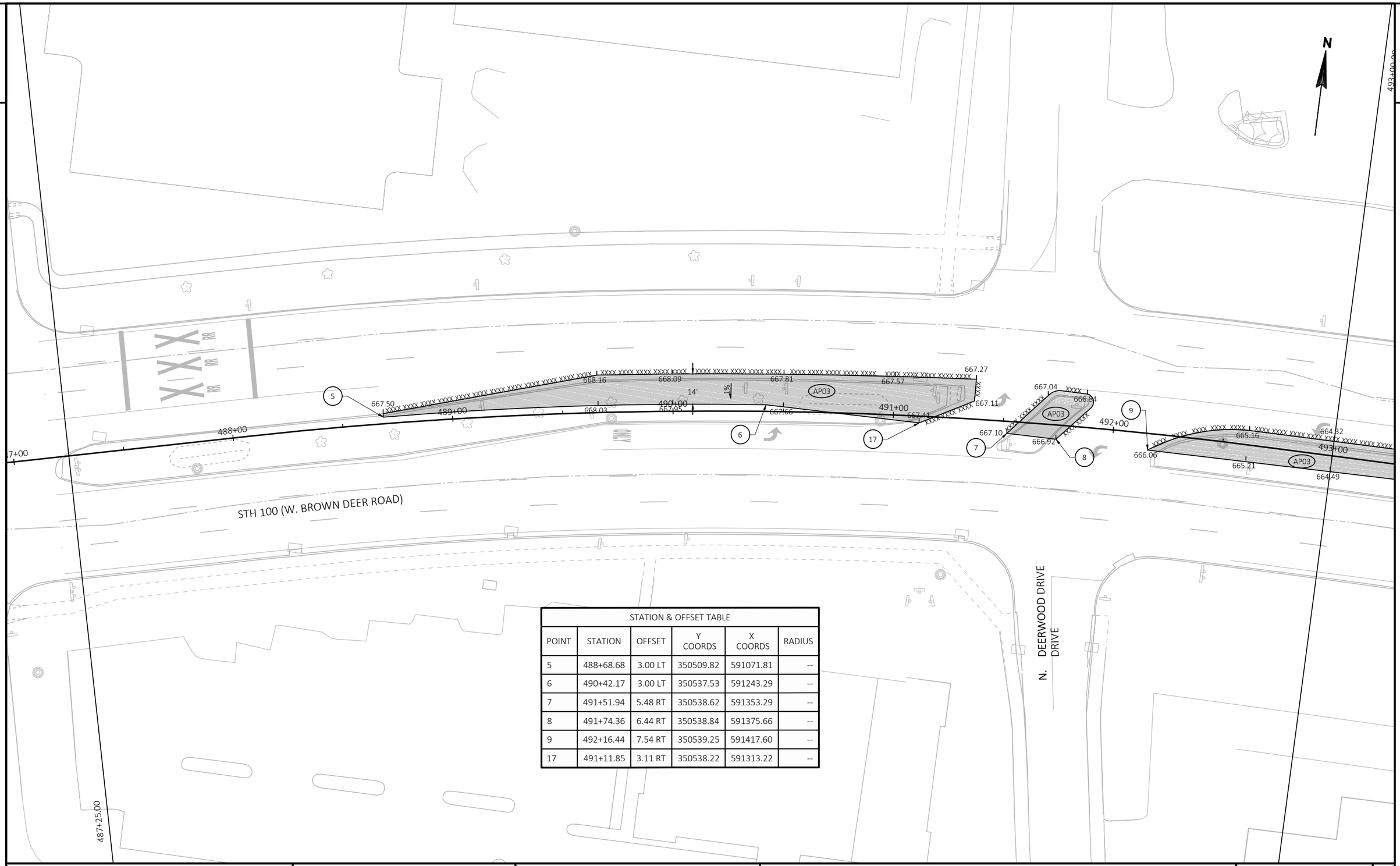
STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
21	486+15.62	3.00 LT	350451.48	590825.47	--

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PLAN DETAILS - TEMPORARY - STAGE 1	SHEET 79	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\021212_PD.DWG
LAYOUT NAME - 021255

PLOT DATE : 7/20/2021 10:39 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

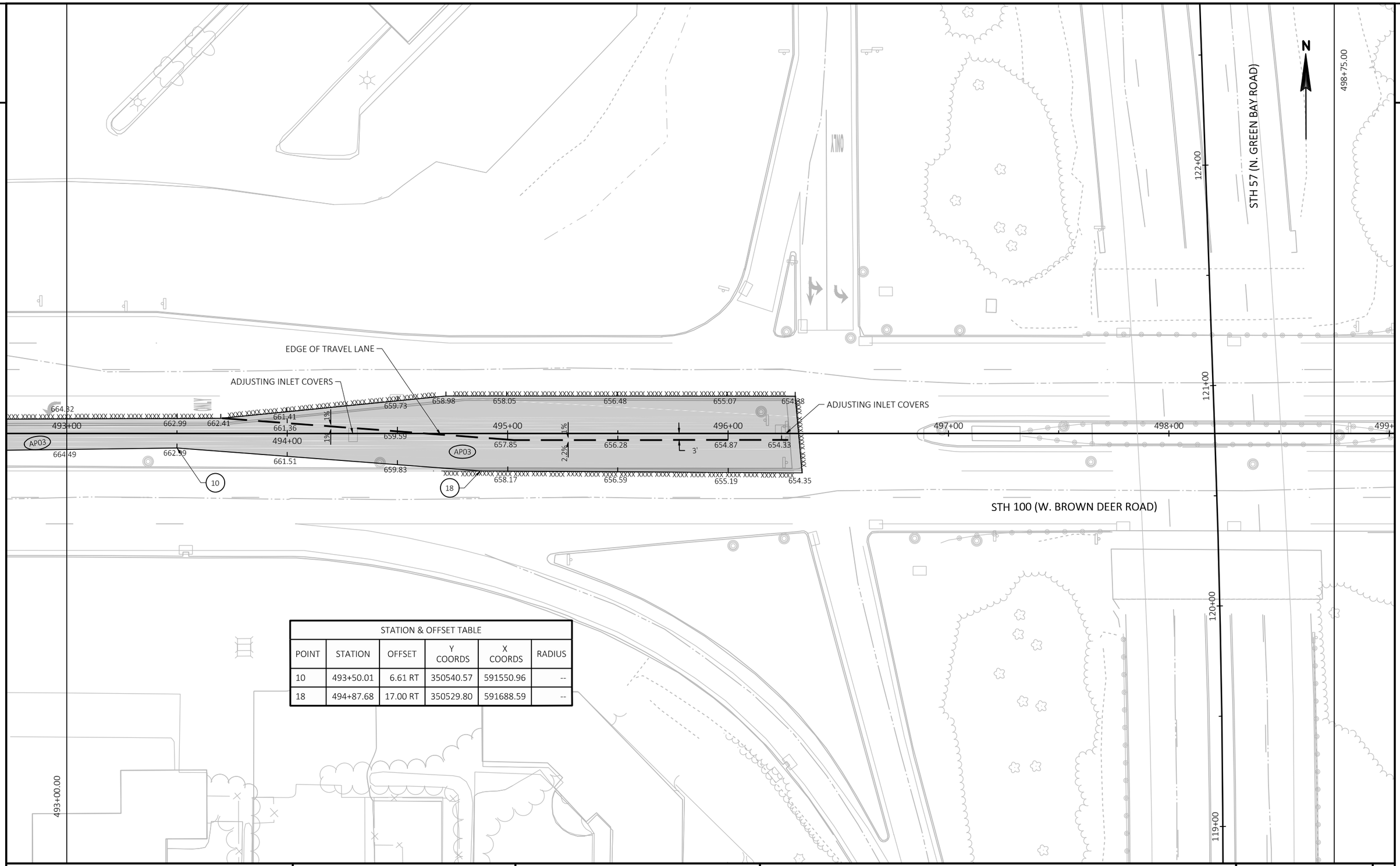
2



STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
5	488+68.68	3.00 LT	350509.82	591071.81	--
6	490+42.17	3.00 LT	350537.53	591243.29	--
7	491+51.94	5.48 RT	350538.62	591353.29	--
8	491+74.36	6.44 RT	350538.84	591375.66	--
9	492+16.44	7.54 RT	350539.25	591417.60	--
17	491+11.85	3.11 RT	350538.22	591313.22	--

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PLAN DETAILS - TEMPORARY - STAGE 1	SHEET 80	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\021212_PD.DWG
LAYOUT NAME - 021256
PLOT DATE : 3/30/2021 3:04 PM
PLOT BY : TONY BUBLITZ
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42



STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
10	493+50.01	6.61 RT	350540.57	591550.96	--
18	494+87.68	17.00 RT	350529.80	591688.59	--

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PLAN DETAILS - TEMPORARY - STAGE 1	SHEET 81	E

2

N

504+50.00

INL

INLET COVERS TYPE S

IN

653.08
653.23
653.51
653.78
654.04
654.40
654.69
655.01
655.29
655.53

AP03

1%
1%
14'
654.26
2%
2%
654.83
655.01

499+00
500+00
652.88
653.03
653.33
501+00
653.64
502+00
653.90
654.48
503+00
654.68
504+00
655.41
655.40

1%
1%
652.94
653.12

11
12
13
14

ADJUSTING INLET COVERS

STH 100 (W. BROWN DEER ROAD)

498+75.00

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
11	500+18.83	6.35 RT	350538.95	592219.78	--
12	501+45.48	3.00 LT	350547.95	592346.45	--
13	501+94.94	3.00 LT	350547.81	592395.91	--
14	502+94.55	4.19 RT	350540.34	592495.50	--

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PLAN DETAILS - TEMPORARY - STAGE 1	SHEET 82	E

2

2

N

INL

INL

W

N. KILDEER COURT

INLET COVERS TYPE S

655.53

655.90

AP03

655.01

505+00

506+00

507+00

508+00

509+00

510+00

656.69

655.41

AP03

655.40

656.51

INLET COVERS TYPE S

STH 100 (W. BROWN DEER ROAD)

504+50.00

KILDEER CT

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PLAN DETAILS - TEMPORARY - STAGE 1	SHEET 83	E

2

2

N

MILWAUKEE RIVER

510+00

511+00

512+00

513+00

514+00

515+00

516+00

510+25.00

516+00.00

STH 100 (W. BROWN DEER ROAD)

MILWAUKEE R.

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PLAN DETAILS - TEMPORARY - STAGE 1	SHEET 84	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\021212_PD.DWG
LAYOUT NAME - 021260

PLOT DATE : 3/30/2021 3:05 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

N. UPPER RIVER ROAD

STH 100 (W. BROWN DEER ROAD)

516+00

517+00

518+00

519+00

520+00

521+00

521+75.00

522+

516+00.00

658.12

657.67

656.82

AP03

15

REMOVING CURB & GUTTER (TYP)

EDGE OF TRAVEL LANE

T3
INLETS 3-FT
INLET COVERS TYPE C

SIGN

MH

INL

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
15	517+81.74	10.05 RT	350402.53	593971.91	--

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PLAN DETAILS - TEMPORARY - STAGE 1	SHEET 85	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\021212_PD.DWG
LAYOUT NAME - 021261

PLOT DATE : 3/30/2021 3:06 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

N

527+50.00

522+00

523+00

524+00

525+00

526+00

527+00

AP03

658.07

661.91

16

T3
-FT
E C

REMOVING CURB &
GUTTER (TYP)

STH 100 (W. BROWN DEER ROAD)

521+75.00

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
16	118+63.05	2611.88 RT	350323.53	594636.80	--

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PLAN DETAILS - TEMPORARY - STAGE 1	SHEET 86	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\021212_PD.DWG
LAYOUT NAME - 021262

PLOT DATE : 3/30/2021 3:06 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

482+00

483+00

484+00

485+00

486+00

487+00

666.63

666.81

AP03

666.86

STH 100 (W. BROWN DEER ROAD)

N. DEERBROOK TRAIL

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PLAN DETAILS - TEMPORARY - STAGE 2	SHEET 87	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\021222_PD.DWG
LAYOUT NAME - 021263

PLOT DATE : 3/22/2021 8:16 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

N

STH 57 (N. GREEN BAY ROAD)

122+00

121+00

+00

496+00

497+00

498+00

499+00

500+00

501+00

AP03

653.25 652.62 652.44 652.52 652.62

653.39 652.79 652.50 652.64 652.79 652.79

653.30 652.71 652.41 652.56 652.71 652.84

2% 2% 2% 2% 2%

1% 1% 1% 1% 1%

ADJUSTING INLET COVERS

652.97 653.08

653.01 652.88 652.94

STH 100 (W. BROWN DEER ROAD)

120+00

119+00

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PLAN DETAILS - TEMPORARY - STAGE 2	SHEET 88	E

2

2

N

N ARBON DR

476+00

477+00

478+00

479+00

480+00

481+00

664.65

664.99

2%

AP03

664.27

664.36

664.66

STH 100 (W. BROWN DEER ROAD)

RR

RR

RR

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PLAN DETAILS - TEMPORARY - STAGE 3 & 4A	SHEET 89	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\021242_PD.DWG
LAYOUT NAME - 021270

PLOT DATE : 4/7/2021 10:42 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

N

CANADIAN NATIONAL RAILWAY

482+00 483+00 484+00 485+00 486+00 487+00

AP03 664.99 665.35 665.41 665.24 664.66 665.51

665.74 665.94 666.10 666.35 666.61 666.85 666.99 667.30

665.90 666.10 666.34 666.60 666.85 667.10 667.23

2% 2% 2%

10'

STH 100 (W. BROWN DEER ROAD)

N. DEERBROOK TRAIL

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
1	482+38.74	0.00	350361.89	590459.41	--
2	482+68.60	7.00 RT	350361.34	590490.10	--

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PLAN DETAILS - TEMPORARY - STAGE 3 & 4A	SHEET 90	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\021242_PD.DWG
LAYOUT NAME - 021271

PLOT DATE : 7/26/2021 11:44 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

3

EDGE OF TRAVEL LANE

4

667.32
667.30
667.21
668.56
668.45
668.92
668.80
668.69
668.82
668.54
668.58
668.30
668.25
667.93
667.86
667.45
667.40
666.87
666.75
666.18
665.75
665.29
664.56
664.20

488+00
489+00
490+00
491+00
492+00
493+00

11'
10'

AP03

STH 100 (W. BROWN DEER ROAD)

CROSS SLOPE TO MATCH ADJACENT SUPERELEVATED PAVEMENT

N. DEERWOOD DRIVE

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
3	488+07.57	15.69 LT	350508.76	591009.12	--
4	491+61.50	3.00 LT	350547.62	591362.35	--

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PLAN DETAILS - TEMPORARY - STAGE 3 & 4A	SHEET 91	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\021242_PD.DWG
LAYOUT NAME - 021272

PLOT DATE : 7/20/2021 10:57 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

STH 57 (N. GREEN BAY ROAD)

STH 100 (W. BROWN DEER ROAD)

122+00

121+00

120+00

119+00

493+00
664.36

494+00
663.87

495+00
661.30

496+00
660.05

497+00
658.77

498+00
657.63

499+
656.65

655.83

654.93

654.75

655.15

AP03

19'

664.20

662.98

661.68

660.43

659.15

658.01

657.03

656.20

655.52

655.11

654.95

5

CROSS SLOPE TO MATCH ADJACENT SUPERELEVATED PAVEMENT

SIGN

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
5	497+65.77	3.00 LT	350549.02	591966.74	--

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PLAN DETAILS - TEMPORARY - STAGE 3 & 4A	SHEET 92	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\021242_PD.DWG
LAYOUT NAME - 021273

PLOT DATE : 4/7/2021 10:43 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

N

INL

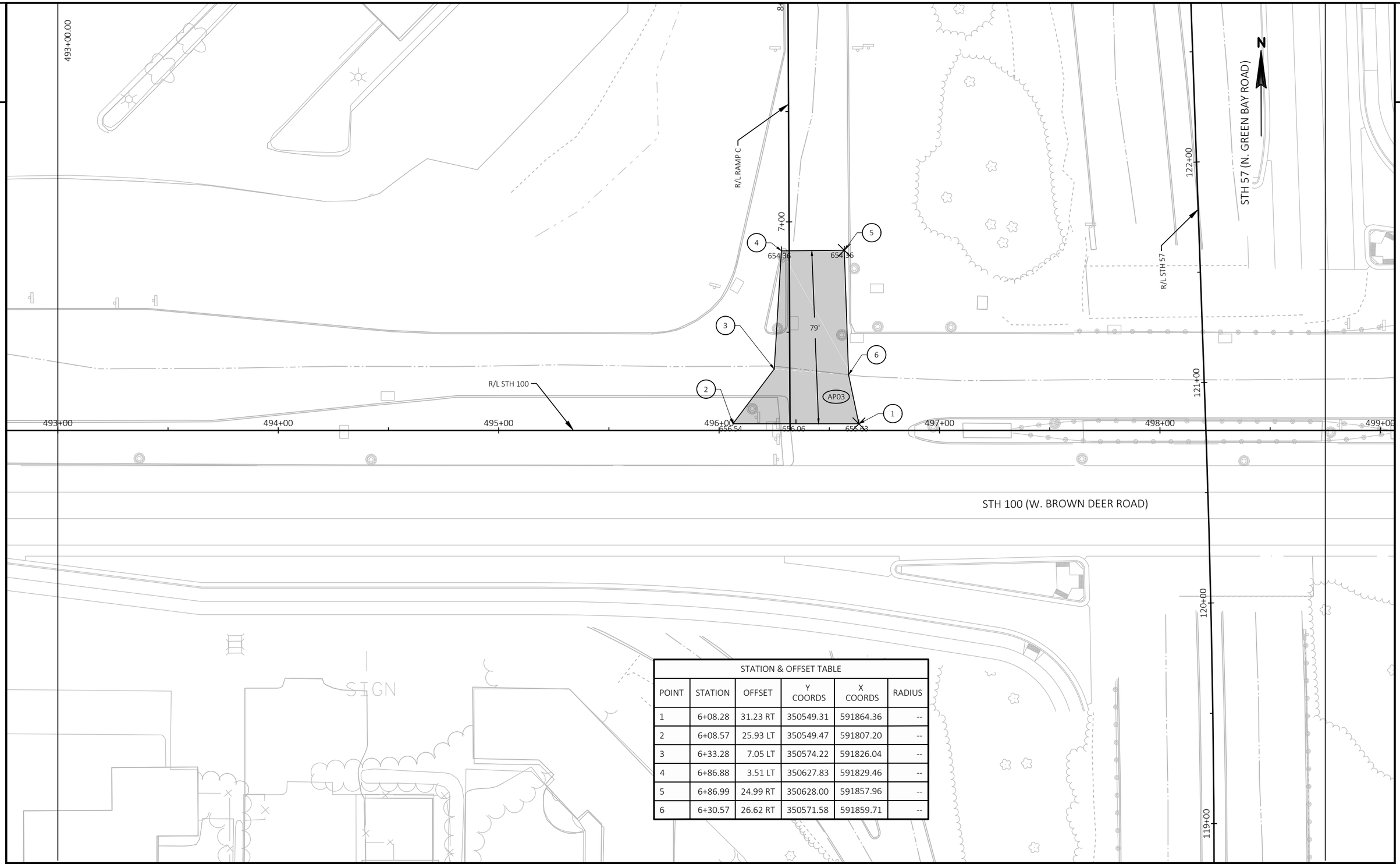
9
651.67
10
651.97
AP03
15'
11
652.96
653.08
12

6
652.81
652.98
7
652.84
8
652.91
653.05
653.81
653.92
654.17
654.38
654.09
653.81
499+00
500+00
501+00
502+00
503+00
504+00
29'
1%
19'
1%
1%
AP03
653.67
653.35
653.24
653.08
653.07
653.21

STH 100 (W. BROWN DEER ROAD)

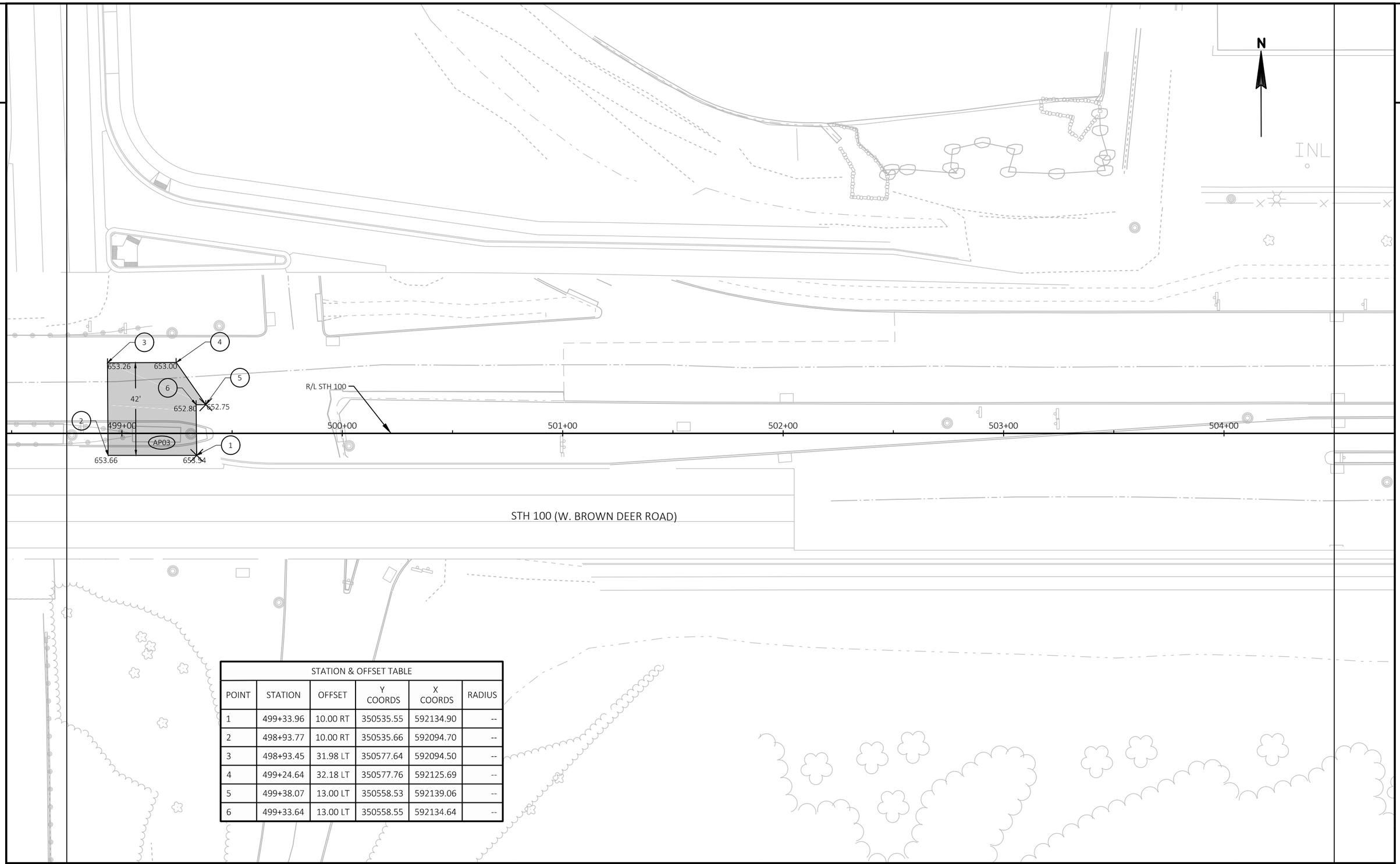
INLET COVERS TYPE S

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
6	499+33.64	13.00 LT	350558.55	592134.64	--
7	499+90.25	13.00 LT	350558.39	592191.25	--
8	500+50.23	3.00 LT	350548.22	592251.20	--
9	499+79.85	96.76 LT	350642.18	592181.08	--
10	499+77.58	81.93 LT	350627.36	592178.77	--
11	501+49.26	69.56 LT	350614.50	592350.42	--
12	501+15.36	59.82 LT	350604.85	592316.49	--



STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
1	6+08.28	31.23 RT	350549.31	591864.36	--
2	6+08.57	25.93 LT	350549.47	591807.20	--
3	6+33.28	7.05 LT	350574.22	591826.04	--
4	6+86.88	3.51 LT	350627.83	591829.46	--
5	6+86.99	24.99 RT	350628.00	591857.96	--
6	6+30.57	26.62 RT	350571.58	591859.71	--

2



STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
1	499+33.96	10.00 RT	350535.55	592134.90	--
2	498+93.77	10.00 RT	350535.66	592094.70	--
3	498+93.45	31.98 LT	350577.64	592094.50	--
4	499+24.64	32.18 LT	350577.76	592125.69	--
5	499+38.07	13.00 LT	350558.53	592139.06	--
6	499+33.64	13.00 LT	350558.55	592134.64	--

2

RUTH PLACE

656.67 656.60 656.25 656.25 656.41 656.16 656.13 656.01

109+25.00

104+00 105+00 106+00 107+00 108+00 109+00

FULL S.E. 3.0%

REVERSE SLOPE C & G

FULL S.E. 3.0%

STH 57 (N. GREEN BAY ROAD)

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PAVING GRADES	SHEET 96 E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\021261_PD.DWG
LAYOUT NAME - 021201

PLOT DATE : 4/27/2021 7:56 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

109+25.00

115+00.00

9+00

110+00

111+00

112+00

113+00

114+00

115+00

+30 BEGIN TRANSITION

+92 BEGIN NORMAL CROWN

+30 BEGIN TRANSITION

+67 BEGIN NORMAL CROWN

STH 57 (N. GREEN BAY ROAD)

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PAVING GRADES	SHEET 97	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\021261_PD.DWG
LAYOUT NAME - 021202

PLOT DATE : 4/27/2021 7:56 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

STH 100 (W. BROWN DEER ROAD)

STH 57 (N. GREEN BAY ROAD)

REVERSE SLOPE C & G

REVERSE SLOPE C & G

REVERSE SLOPE C & G

115+00

116+00

117+00

118+00

119+00

120+00

121+

115+00.00

497+00

498+00

499+00

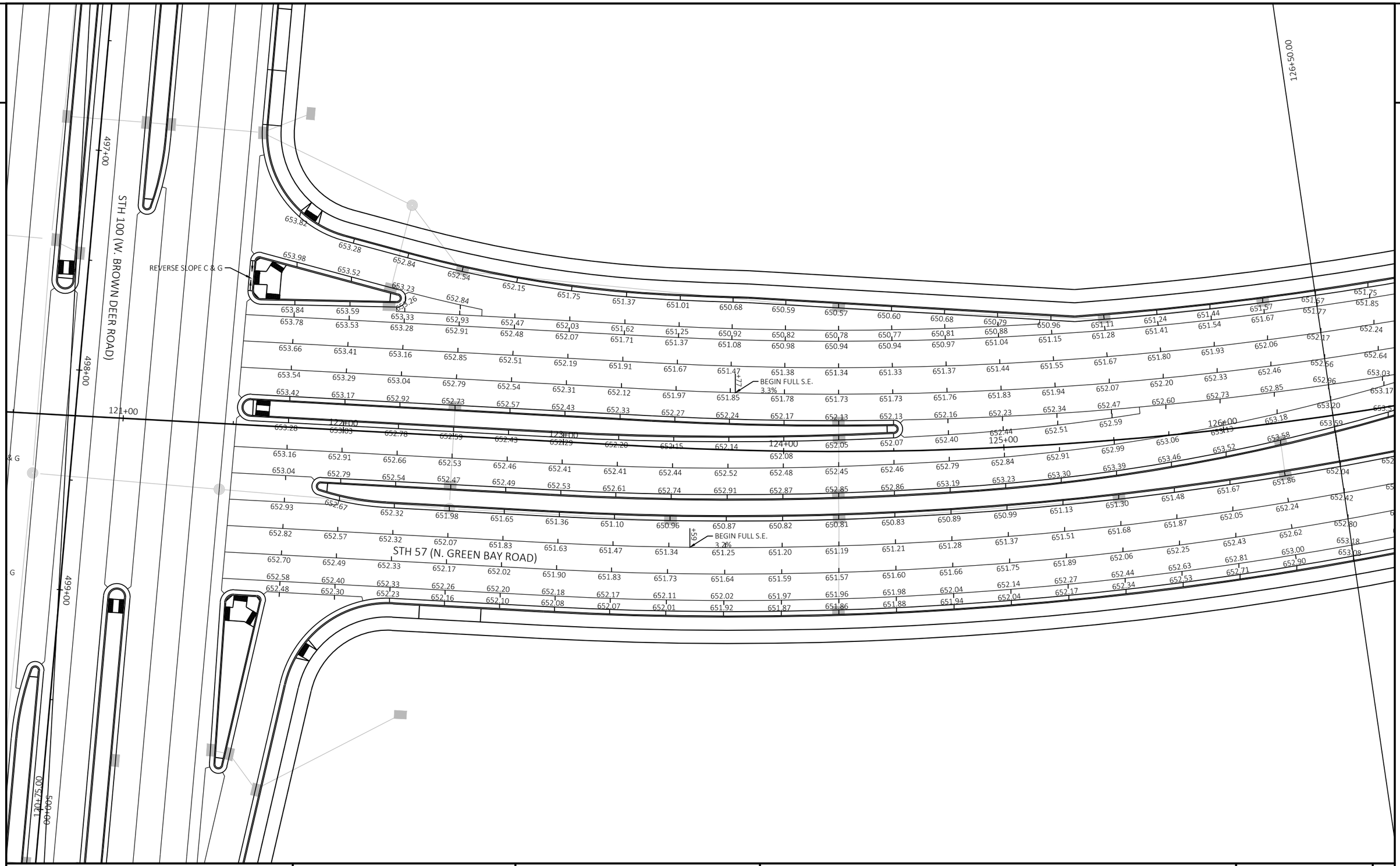
500+00

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PAVING GRADES	SHEET 98	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\021261_PD.DWG
LAYOUT NAME - 021203

PLOT DATE : 4/27/2021 7:56 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

2



PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PAVING GRADES	SHEET 99	E

2

2

132+25.00

126+50.00

127+00

128+00

129+00

130+00

131+00

132+00

BEGIN TRANSITION

BEGIN NORMAL CROWN

STH 57 (N. GREEN BAY ROAD)

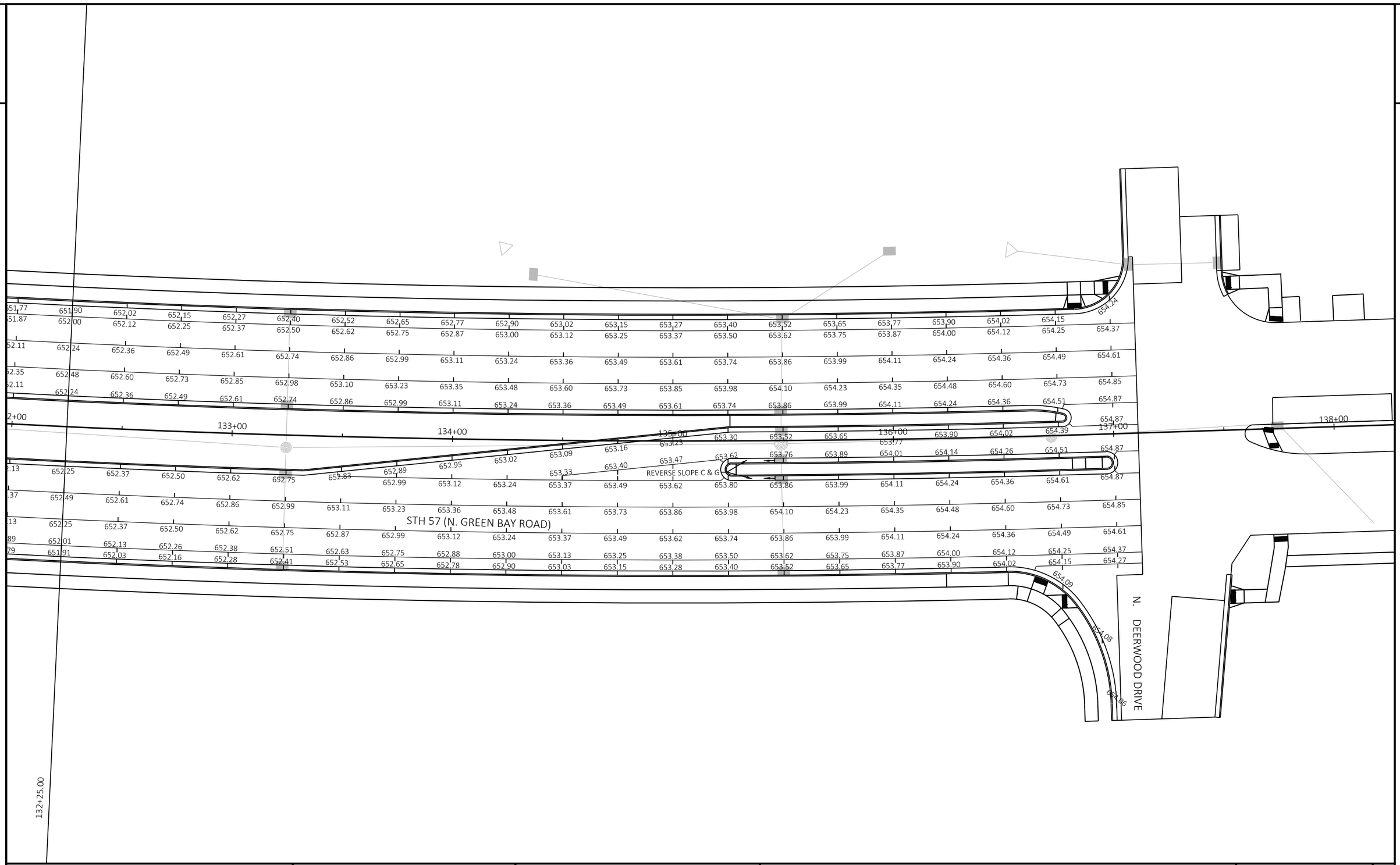
PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PAVING GRADES	SHEET 100	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\021261_PD.DWG
LAYOUT NAME - 021205

PLOT DATE : 4/27/2021 7:56 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2



PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PAVING GRADES	SHEET 101	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\021261_PD.DWG
LAYOUT NAME - 021206

PLOT DATE : 4/27/2021 7:56 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

482+00

483+00

484+00

485+00

486+00

487+00

487+25.00

CANADIAN NATIONAL RAILWAY

STH 100 (W. BROWN DEER ROAD)

N. DEERBROOK TRAIL

667.65 667.65 667.40 667.72 668.11 667.09 668.01

664.64 664.78 665.06 665.19 665.31 665.44 665.56 665.69 665.81 665.94 666.06 666.21 666.55 666.91 667.24 667.57 667.94 668.0

664.86 665.06 665.16 665.29 665.41 665.54 665.66 665.79 665.91 666.04 666.16 666.31 666.61 666.92 667.22 667.52 667.83 668.0

664.99 665.27 665.40 665.53 665.65 665.78 665.90 666.03 666.15 666.28 666.40 666.54 666.75 666.97 667.18 667.40 667.61 667.7

665.09 665.30 665.64 665.77 665.89 666.02 666.14 666.27 666.39 666.52 666.64 666.77 666.89 667.02 667.14 667.27 667.39 667.5

665.59 665.63 665.66 665.78 665.90 666.03 666.15 666.28 666.40 666.53 666.75 666.90 667.02 667.14 667.18 667.2

666.21 666.71 667.14

665.87 666.09 666.34 666.46 666.59 666.84 666.86 667.06 667.37 667.2

665.68 665.75 665.83 665.79 666.13 666.33 666.45 666.58 666.70 666.83 666.95 667.08 667.14 667.27 667.42 667.61 667.5

665.56 665.73 665.97 666.03 666.07 666.09 666.22 666.31 666.47 666.59 666.72 666.84 666.97 667.09 667.22 667.34 667.47 667.62 667.84 668.0

665.66 665.89 666.21 666.33 666.46 666.58 666.71 666.83 666.96 667.08 667.21 667.33 667.46 667.58 667.71 667.83 667.96 668.0

665.73 665.91 666.17 666.21 666.25 666.34 666.47 666.59 666.72 666.84 666.97 667.09 667.22 667.34 667.47 667.59 667.72 667.8

665.80 665.95 666.14 666.09 666.03 666.10 666.23 666.35 666.48 666.60 666.73 666.85 666.98 667.10 667.23 667.35 667.48 667.6

665.85 666.04 665.99 665.93 666.00 666.13 666.25 666.38 666.50 666.63 666.75 666.88 667.00 667.13 667.25 667.38 667.5

467' BEGIN TRANSITION

417'

REVERSE SLOPE C & G

492' BEGIN TRANSITION

666.66 666.46 666.70 667.00 667.13

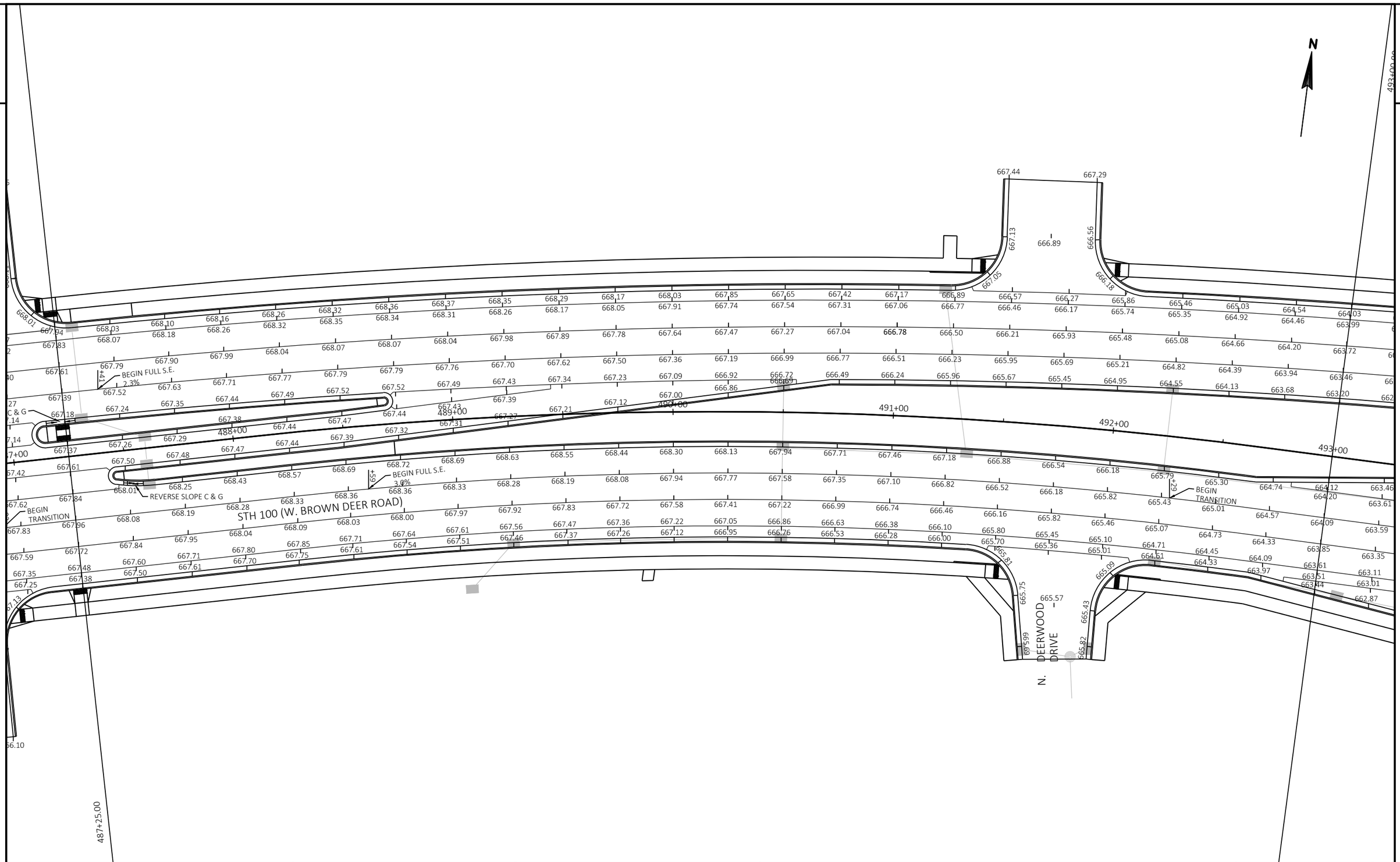
665.81 666.10

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PAVING GRADES	SHEET 102	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\021262_PD.DWG
LAYOUT NAME - 021207

PLOT DATE : 7/19/2021 4:24 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42



2

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PAVING GRADES	SHEET 103	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\021262_PD.DWG
LAYOUT NAME - 021208

PLOT DATE : 4/27/2021 8:00 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

STH 57 (N. GREEN BAY ROAD)

498+75.00

122.00

121+00

120+00

119+00

493+00.00

BEGIN TRANSITION +63

BEGIN NORMAL CROWN +07

BEGIN NORMAL CROWN 96

REVERSE SLOPE C & G

REVERSE SLOPE C & G

REVERSE SLOPE C & G

493+00 494+00 495+00 496+00 497+00 498+00

STH 100 (W. BROWN DEER ROAD)

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PAVING GRADES	SHEET 104	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\021262_PD.DWG
LAYOUT NAME - 021209

PLOT DATE : 4/27/2021 8:00 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

STH 57 (N. GREEN BAY ROAD)

REVERSE SLOPE C & G

499+00

500+00

501+00

502+00

503+00

504+00

504+50.00

498+75.00

STH 100 (W. BROWN DEER ROAD)

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PAVING GRADES	SHEET 105	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\021262_PD.DWG
LAYOUT NAME - 021210

PLOT DATE : 4/30/2021 8:29 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

N. KILDEER COURT

653.92
653.98
654.08
654.17
654.27
654.35
654.45
654.54
654.64
654.73
654.83
654.92
655.02
655.11
655.21
655.30
655.40
655.49
655.59
655.67
655.77
655.86
655.96
656.05
656.15
656.25
656.34
656.53
656.64
654.32
654.51
654.70
654.89
655.07
655.26
655.45
655.64
655.83
656.02
656.21
656.39
656.58
656.77
656.84
654.56
654.75
654.94
655.13
655.32
655.50
655.69
655.88
656.07
656.26
656.45
656.64
656.82
657.01
657.08
654.32
654.51
654.70
654.89
655.08
655.27
655.46
655.62
655.83
656.02
656.21
656.40
656.59
654.23
655.15
655.39
657.19
657.33
653.99
654.22
654.46
654.69
654.92

504+00
505+00
506+00
507+00
508+00
509+00

STH 100 (W. BROWN DEER ROAD)

654.55
654.47
654.68
654.60
654.74
654.66
654.90
654.82
655.01
654.93
655.11
655.03
655.32
655.24
655.49
655.41
655.64
655.56
655.79
655.71
655.91
655.83
655.99
655.91
656.09
656.01
656.20
656.12
656.36
656.28

504+50.00

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PAVING GRADES	SHEET 106	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\021262_PD.DWG
LAYOUT NAME - 021211

PLOT DATE : 4/30/2021 8:29 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

X CLEARING AND GRUBBING (I.D.)

CLEARING AND GRUBBING (STATION)

REMOVING PAVEMENT

REMOVING ASPHALTIC SURFACE MILLING & REMOVING CONCRETE SURFACE PARTIAL DEPTH

REMOVING ASPHALTIC SURFACE MILLING

REMOVING CONCRETE SIDEWALK

OBLITERATING OLD ROAD

REMOVING CURB & GUTTER

REMOVING GUARDRAIL

XXX SAWING CONCRETE

SLOPE INTERCEPT

REMOVING MANHOLES

ABANDONING MANHOLES

GENERAL NOTES

1. ALL ITEMS ASSOCIATED WITH LIGHTING REMOVALS ARE SHOWN IN LIGHTING PLAN.
2. ALL ITEMS ASSOCIATED WITH STORM SEWER REMOVALS ARE SHOWN IN STORM SEWER PLANS.
3. CLEARING AND GRUBBING SHALL BE PAID EITHER BY STATION OR INCH DIAMETER (I.D.)
4. THE LOCATION OF THE EXISTING UTILITY INSTALLATION AS SHOW ON THE PLANS IS APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN INCLUDING BUILDING SERVICES AND LATERALS.
5. SAWING ASPHALT AND SAWING CONCRETE PAVEMENTS FOR UNDERGROUND CONSTRUCTION WITHIN THE ROADWAY CONSTRUCTION LIMITS ARE NOT SHOWN ON THESE PLANS. FOR ADDITIONAL INFORMATION SEE MISCELLANEOUS QUANTITIES.
6. CURB AND GUTTER ADJACENT TO CONCRETE PAVEMENT REMOVAL IS INCLUDED IN PAVEMENT REMOVAL UNLESS OTHERWISE NOTED.

2

2

N

109+50.00

END STA. 105+37
116' LT

RUTH PLACE

110+00

109+00

108+00

107+00

106+00

105+00

104+00

BEGIN STA. 104+00

103+00

102+00

101+00

R/L STH 57

STH 57 (GREEN BAY ROAD)

EXISTING TREE LINE TO REMIAN

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	REMOVAL PLAN	SHEET 108	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\021801_RM.DWG
LAYOUT NAME - 021801

PLOT DATE : 3/22/2021 10:21 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

EXCAVATION, HAULING, AND DISPOSAL OF CREOSOTE CONTAMINATED SOIL

STH 100 (W. BROWN DEER ROAD)

R/L STH 100

494+00

495+00

496+00

497+00

498+00

499+00

500+00

501+00

502+00

503+00

110+00

111+00

112+00

113+00

114+00

115+00

116+00

117+00

118+00

119+00

120+00

121+00

122+00

123+00

124+00

124+75.00

125

STH 57 (GREEN BAY ROAD)

R/L STH 57

EXISTING TREE LINE TO REMAIN

SALVAGED SAND BARRELS

REMOVING MASONRY OLD FOUNDATIONS

REMOVING OLD STRUCTURE B-40-153 (120+75)

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	REMOVAL PLAN	SHEET 109	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\021801_RM.DWG
LAYOUT NAME - 021802

PLOT DATE : 3/22/2021 10:22 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

125+00
126+00
127+00
128+00
129+00
130+00
131+00
132+00
133+00
134+00
135+00
136+00
137+00
138+00
139+00
140+00

140+00.00

R/L STH 57

STH 57 (GREEN BAY ROAD)

END STA. 137+21
120' LT

END STA. 137+18
130' RT

DEERWOOD DR.

DEERWOOD DR

CANOPY

SIGN

INL

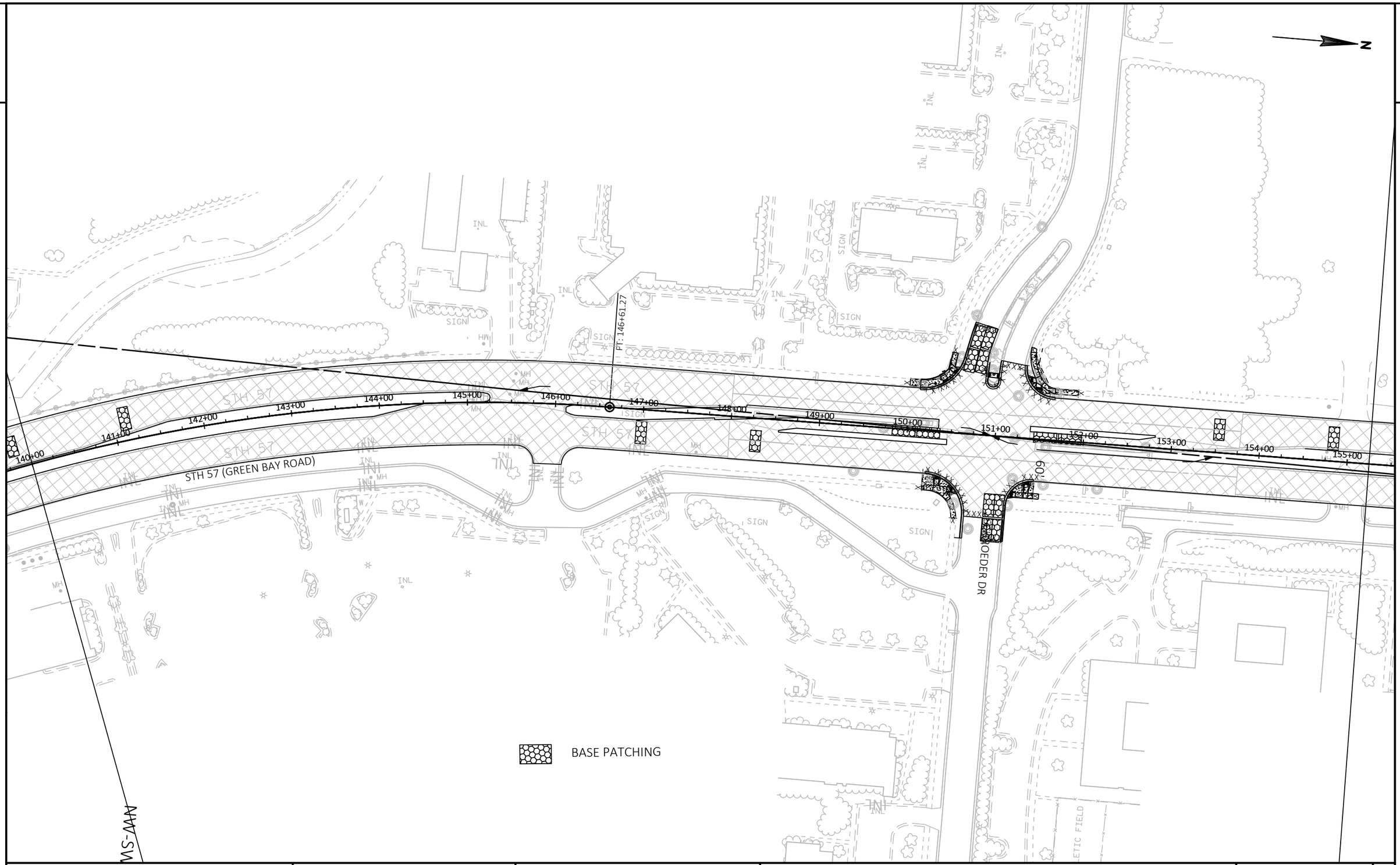
MH

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	REMOVAL PLAN	SHEET 110	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\021801_RM.DWG
LAYOUT NAME - 021803

PLOT DATE : 3/22/2021 10:22 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:100 FT

2



BASE PATCHING

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	REMOVAL	SHEET 111	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\021801_RM.DWG
LAYOUT NAME - 021802
PLOT DATE : 4/7/2021 11:12 AM PLOT BY : JOHNATHAN OLSON PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

2

N

DEER RUN DR

DONGES LN.

MATCHLINE 170+50.00

MATCHLINE 155+25.00

POOL

A/C

SIGN

MH

INL

STH 57

STH 57 (GREEN BAY ROAD)

PC: 167+07.95

155+00 156+00 157+00 158+00 159+00 160+00 161+00 162+00 163+00 164+00 165+00 166+00 167+00 168+00 169+00 170+00

NW-NW

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	REMOVAL	SHEET 112	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\021801_RM.DWG
LAYOUT NAME - 021803

PLOT DATE : 4/7/2021 11:12 AM PLOT BY : JOHNATHAN OLSON PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

MATCHLINE 185+75.00

Alignment=STH57-Prop
Station=173+99.70
REMOVAL TRANSITION

PT: 172+97.23

PI: 173+24.23

PC: 182+03.04

CEDARBURG ROAD

STH 57

COUNTY LINE RD.

COUNTY ROAD

HIAWATHA DR.

RAMP

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	REMOVAL	SHEET 113	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\021801_RM.DWG
LAYOUT NAME - 021804
PLOT DATE : 4/7/2021 11:13 AM PLOT BY : JOHNATHAN OLSON PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

2

MATCHLINE 201+00.00

MATCHLINE 185+75.00

WILLOW RD.

ELMDALE RD.

POOL

INL

PT: 186+21.16

SIGN

SIGN

SIGN

SIGN

SIGN

SIGN

MH

MH

MH

W

W

W

2

2

MATCHLINE 216+25.00

KATHLEEN LN.

WESTFIELD RD.

PI: 201+36.15

BEAM GUARD TO REMAIN

PC: 213+22.34

201+00 202+00 203+00 204+00 205+00 206+00 207+00 208+00 209+00 210+00 211+00 212+00 213+00 214+00 215+00 216+00

CEDARBURG ROAD

SIGN

BEAM GUARD TO REMAIN

MATCHLINE 201+00.00

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	REMOVAL	SHEET 115	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\021801_RM.DWG
LAYOUT NAME - 021806

PLOT DATE : 4/7/2021 11:14 AM PLOT BY : JOHNATHAN OLSON PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

MATCHLINE 231+50.00

MATCHLINE 216+25.00

PT: 217+18.68

PI: 229+72.15

217+00 218+00 219+00 220+00 221+00 222+00 223+00 224+00 225+00 226+00 227+00 228+00 229+00 230+00 231+00

CEDARBURG ROAD

SIGN

POST

SIGN

FILLER CAPS

FILLER CAPS

CANOPY

MH

PONGES BAY ROAD

NW-NE

PLAYGROUND

BASE PATCHING

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	REMOVAL	SHEET 116	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\021801_RM.DWG
LAYOUT NAME - 021807

PLOT DATE : 4/7/2021 11:14 AM PLOT BY : JOHNATHAN OLSON PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

BP: 45+00.00

PI: 47+35.70

SE-SW

WALLS

BUILDING REMOVED

BAYBERRY PKWY.

WALLS

SIGN

232+00 233+00 234+00 235+00 236+00 237+00 238+00 239+00 240+00 241+00 242+00 243+00 244+00 245+00 246+00 247

CEDARBURG ROAD

MATCHLINE 246+75.00

2

MATCHLINE 231+50.00

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	REMOVAL	SHEET 117	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\021801_RM.DWG
LAYOUT NAME - 021808

PLOT DATE : 4/7/2021 11:15 AM PLOT BY : JOHNATHAN OLSON PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

MATCHLINE 262+00.00

N

SHERWOOD

PI: 253+39.69

247+00 248+00 249+00 250+00 251+00 252+00 253+00 254+00 255+00 256+00 257+00 258+00 259+00 260+00 261+00 262+00

CEDARBURG ROAD

W

MATCHLINE 246+75.00

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	REMOVAL	SHEET 118	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\021801_RM.DWG
LAYOUT NAME - 021809

PLOT DATE : 4/7/2021 11:15 AM PLOT BY : JOHNATHAN OLSON PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

SHERWOOD DR.

MH

W

MATCHLINE 277+25.00

PC: 276+64.35

262+00 263+00 264+00 265+00 266+00 267+00 268+00 269+00 270+00 271+00 272+00 273+00 274+00 275+00 276+00 277+00

CEDARBURG ROAD

MATCHLINE 262+00.00

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	REMOVAL	SHEET 119	E

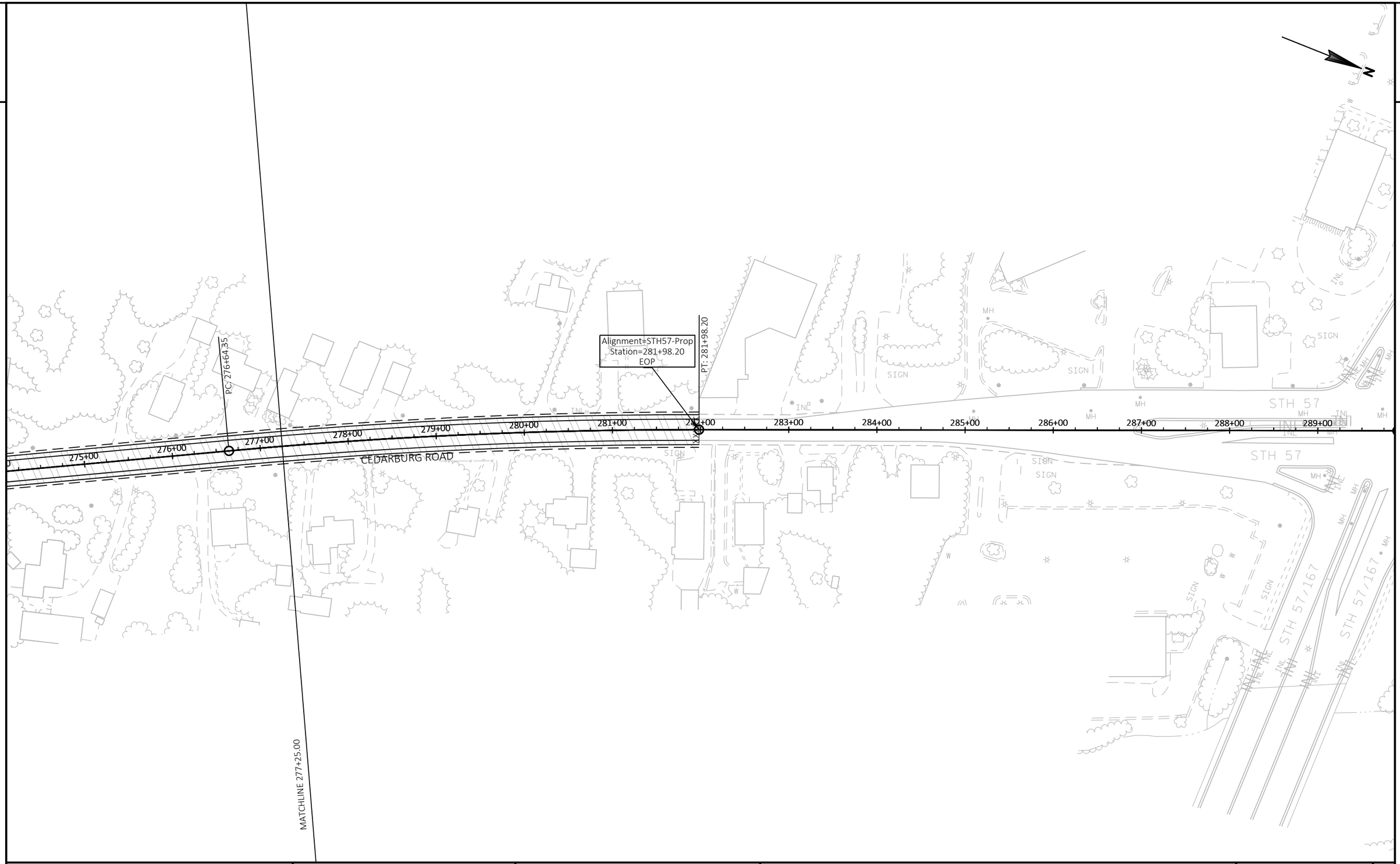
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LAYOUT NAME - 021810

PLOT DATE : 4/7/2021 11:16 AM PLOT BY : JOHNATHAN OLSON PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2



PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	REMOVAL	SHEET 120	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\021801_RM.DWG
LAYOUT NAME - 021811

PLOT DATE : 4/7/2021 11:16 AM PLOT BY : JOHNATHAN OLSON PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

CANADIAN NATIONAL RAILWAY

N. DEERBROOK TRAIL

N. DEERWOOD DRIVE

END STA. 486+87
123' LT

END STA. 491+64
111' LT

BEGIN STA. 481+98

480+00 481+00 482+00 483+00 484+00 485+00 486+00 487+00 488+00 489+00 490+00 491+00 492+00 493+00 494+00

R/L STH 100

STH 100 (W. BROWN DEER ROAD)

END STA. 486+68
123' RT

END STA. 491+82
106' RT

REMOVING CO

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	REMOVAL PLAN	SHEET 121	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\021802_RM.DWG
LAYOUT NAME - 021814

PLOT DATE : 7/20/2021 3:44 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

N

ML

125+00
124+00
123+00
122+00
121+00
120+00
119+00
118+00
117+00
116+00

R/L STH 57

STH 57 (GREEN BAY ROAD)

STH 100 (W. BROWN DEER ROAD)

494+00 495+00 496+00 497+00 498+00 499+00 500+00 501+00 502+00 503+00 504+00 505+00 506+00 507+00 508+00 509+00

R/L STH 100

N. KILDEER COURT

RIVER LN.

REMOVING CONCRETE SLOPE PAVING

REMOVING OLD
STRUCTURE B-40-153 (120+75)

EXISTING TREE LINE TO REMAIN

(1)

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	REMOVAL PLAN	SHEET 122	E

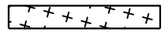
FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\021802_RM.DWG
LAYOUT NAME - 021815

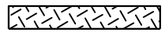
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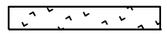
2

LEGEND

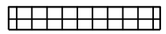

EROSION MAT URBAN CLASS I, TYPE A


EROSION MAT URBAN CLASS I, TYPE B


EROSION MAT CLASS I, TYPE B

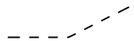

SOD LAWN

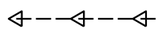

MULCHING


SOIL STABILIZER TYPE A

SILT FENCE

HEAVY DUTY SILT FENCE


SLOPE INTERCEPT


SILT SCREEN


INLET PROTECTION



TYPE


TEMPORARY DITCH CHECK


CULVERT PIPE DITCH CHECK


SURFACE WATER FLOW

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	EROSION CONTROL	SHEET 123	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\022001_EC1.DWG
LAYOUT NAME - 022000
PLOT DATE : 4/29/2021 11:41 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

STH 57 (GREEN BAY ROAD)

STH 100 (W. BROWN DEER ROAD)

110+00 111+00 112+00 113+00 114+00 115+00 116+00 117+00 118+00 119+00 120+00 121+00 122+00 123+00 124+00 125

494+00 495+00 496+00 497+00 498+00 499+00 500+00 501+00 502+00 503

7+00 8+00 9+00 10+00

124+75.00

WETLAND BOUNDARY

WETLAND BOUNDARY

WETLAND BOUNDARY

POST

SIGN

SIGN

MH

MH

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	EROSION CONTROL - TEMPORARY STAGE 1	SHEET 124	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\022001_EC1.DWG
LAYOUT NAME - 022002

PLOT DATE : 4/29/2021 11:42 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

WETLAND BOUNDARY

10+00

11+00

12+00

13+00

14+00

15+00

16+00

17+00

WETLAND BOUNDARY

WETLAND BOUNDARY

125+00

126+00

127+00

128+00

129+00

130+00

131+00

132+00

133+00

134+00

135+00

136+00

137+00

138+00

139+00

140+00

140+00.00

DEERWOOD DR.

SIGN

SIGN

HW

MH

W

INL

N

STH 57 (GREEN BAY ROAD)

WETLAND BOUNDARY

CANOPY

DEERWOOD DR

MH

INL

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	EROSION CONTROL - TEMPORARY STAGE 1	SHEET 125	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\022001_EC1.DWG
LAYOUT NAME - 022003

PLOT DATE : 4/29/2021 11:42 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

N

480+00
481+00
482+00
483+00
484+00
485+00
486+00
487+00
488+00
489+00
490+00
491+00
492+00
493+00
494+00

CANADIAN NATIONAL RAILWAY

STH 100 (W. BROWN DEER ROAD)

N. DEERBROOK TRAIL

WETLAND BOUNDARY

N. DEERWOOD DRIVE

SIGN

SIGN

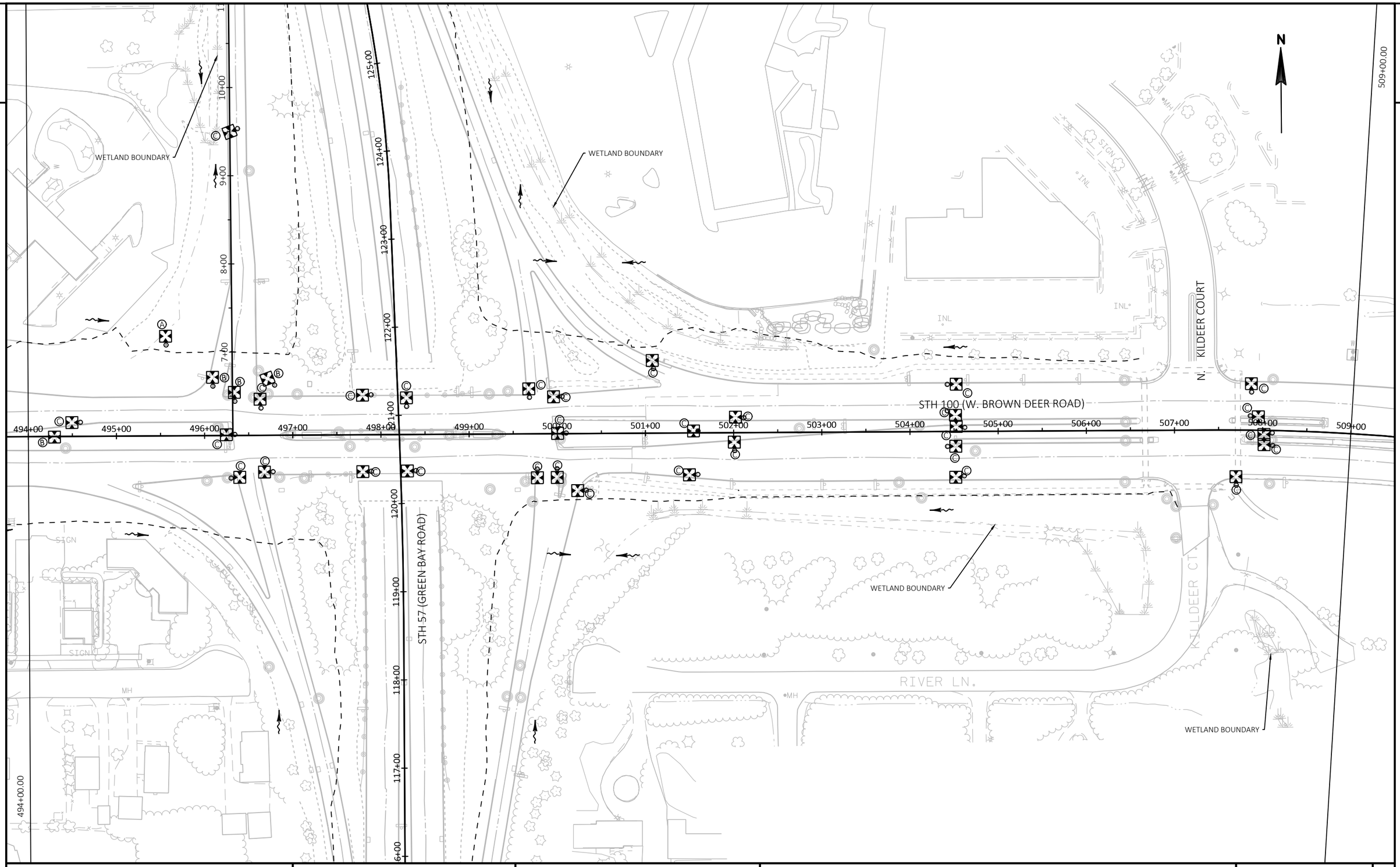
MH

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	EROSION CONTROL - TEMPORARY STAGE 1	SHEET 126	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\022002_EC1.DWG
LAYOUT NAME - 022014

PLOT DATE : 4/29/2021 11:47 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42



PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	EROSION CONTROL - TEMPORARY STAGE 1	SHEET 127	E

2

2

STH 57 (GREEN BAY ROAD)

STH 100 (W. BROWN DEER ROAD)

110+00 111+00 112+00 113+00 114+00 115+00 116+00 117+00 118+00 119+00 120+00 121+00 122+00 123+00 124+00 125

494+00 495+00 496+00 497+00 498+00 499+00 500+00 501+00 502+00 503

124+75.00

WETLAND BOUNDARY

WETLAND BOUNDARY

WETLAND BOUNDARY

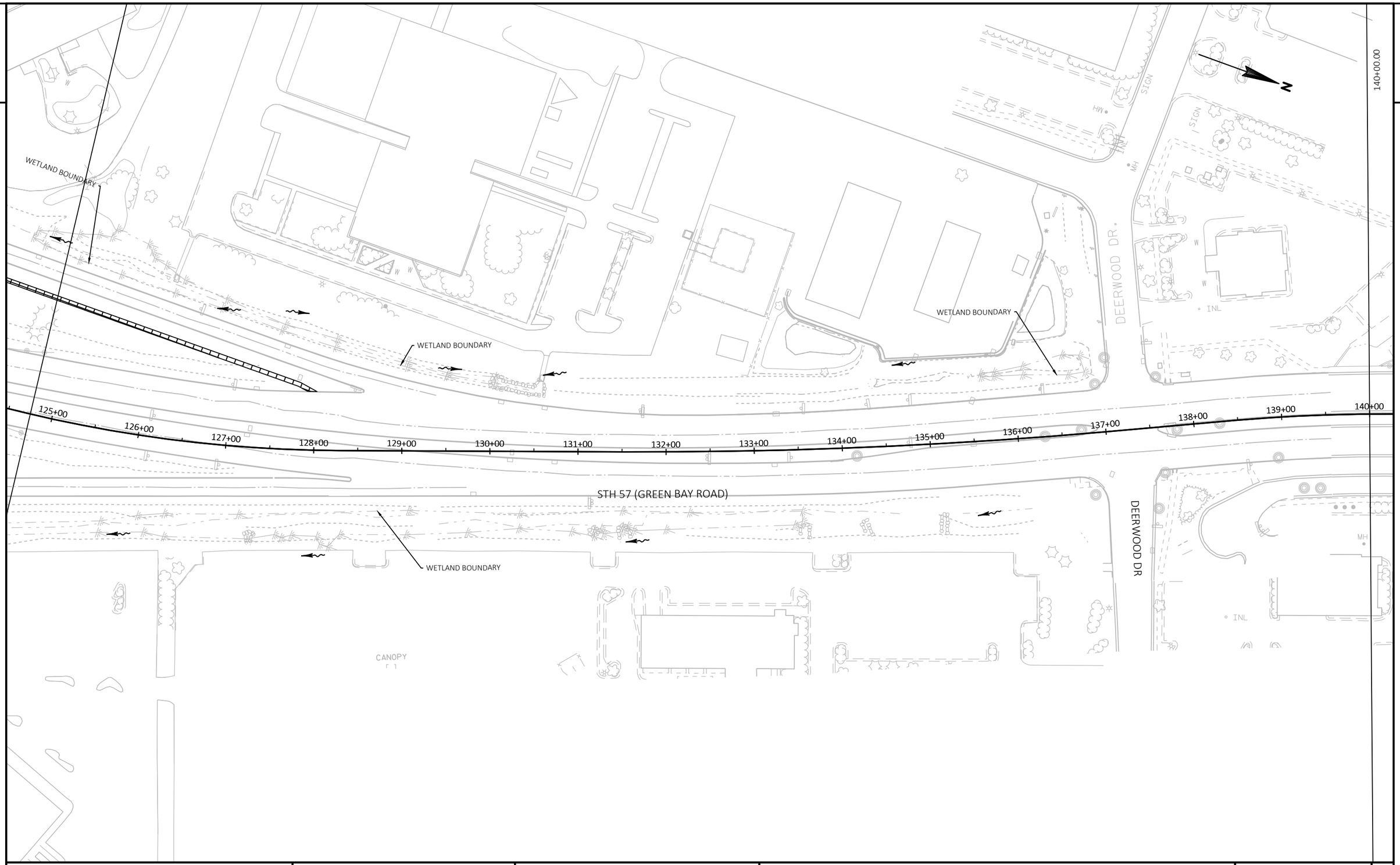
PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	EROSION CONTROL - PERMANENT STAGE 1	SHEET 128	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\022101_RT1.DWG
LAYOUT NAME - 022202

PLOT DATE : 4/29/2021 11:53 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

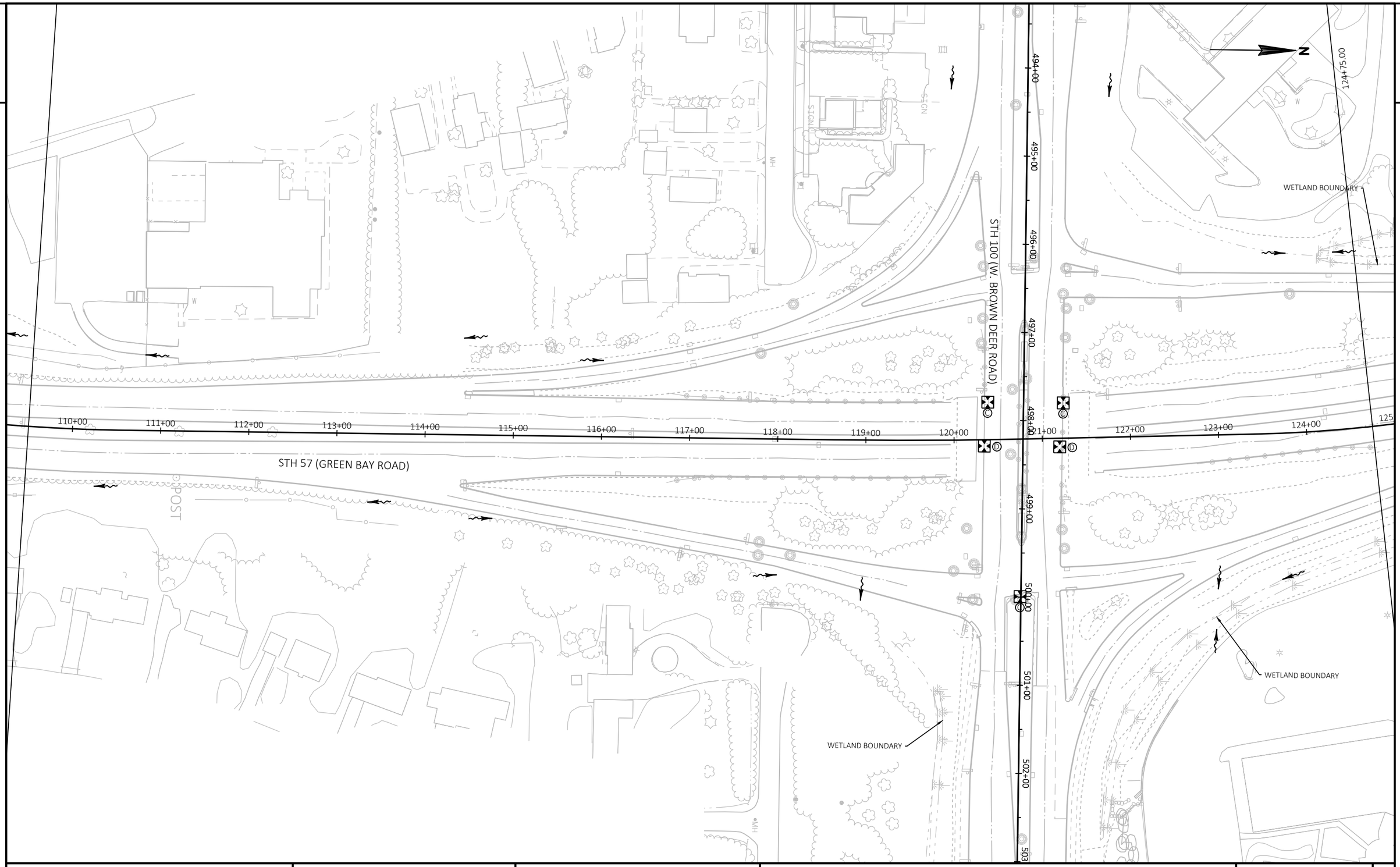


PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	EROSION CONTROL - PERMANENT STAGE 1	SHEET 129	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\022101_RT1.DWG
LAYOUT NAME - 022203

PLOT DATE : 4/29/2021 11:53 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

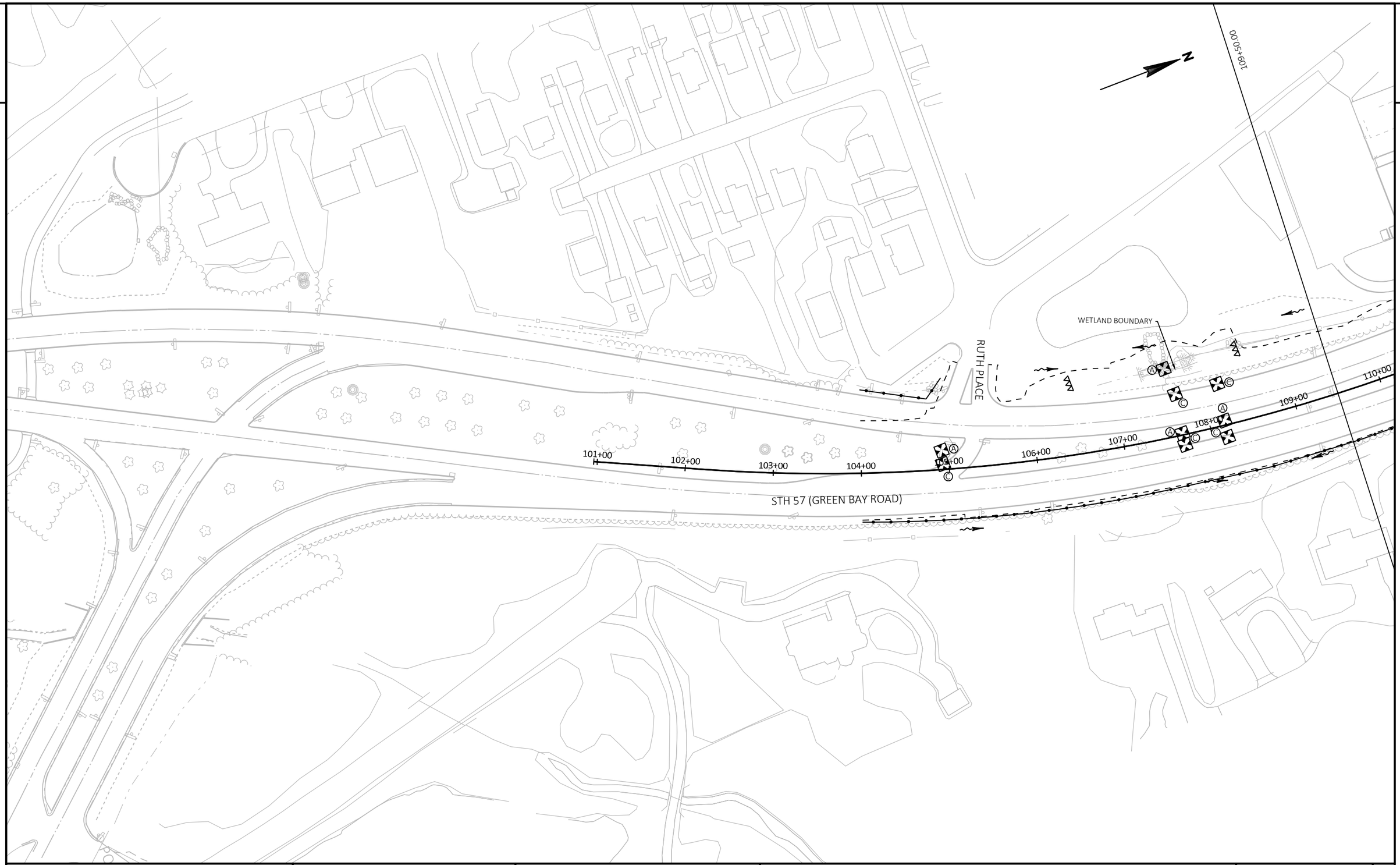


PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	EROSION CONTROL - TEMPORARY STAGE 2	SHEET 130	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\022001_EC2.DWG
LAYOUT NAME - 022002

PLOT DATE : 4/29/2021 11:44 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

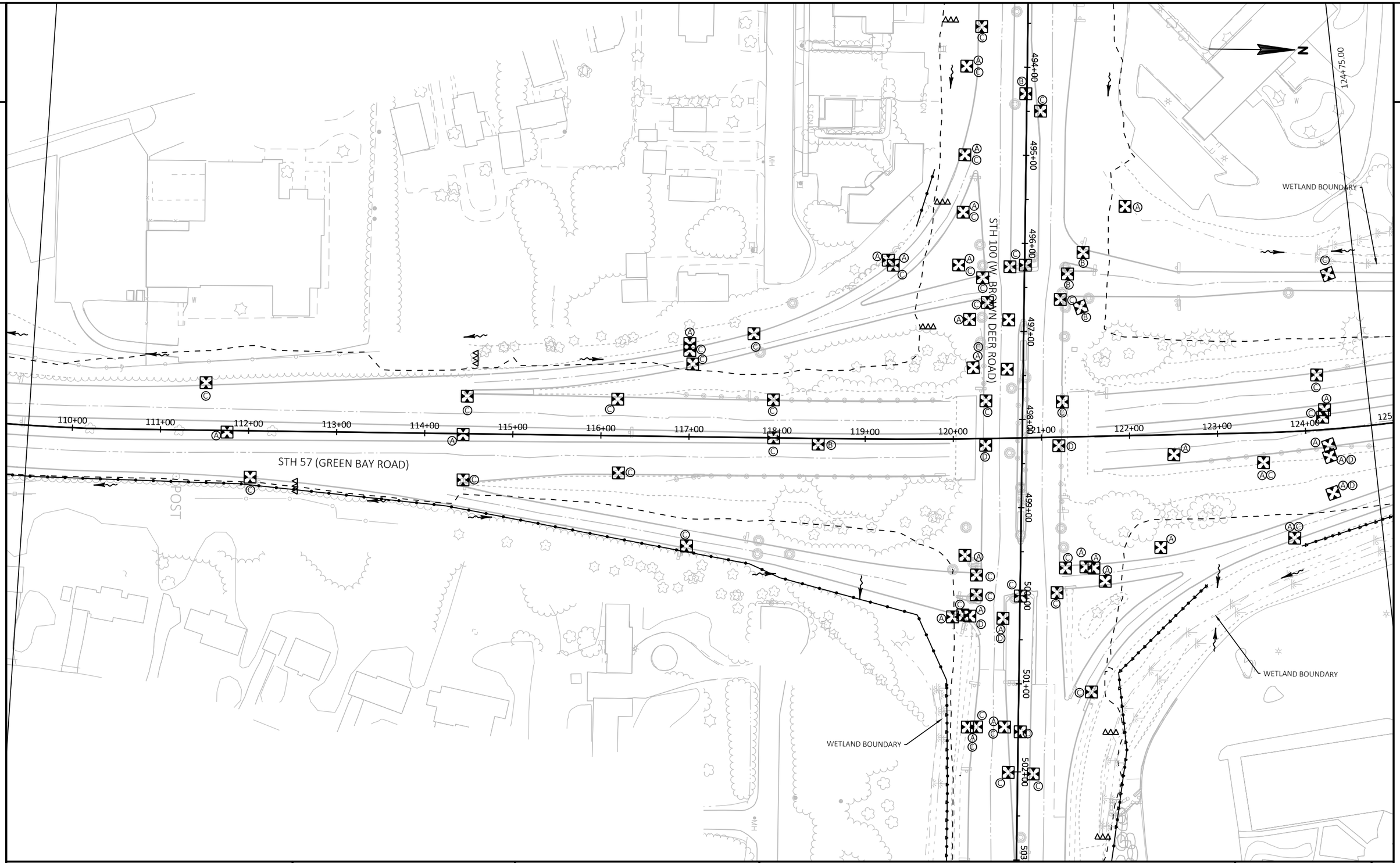


PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	EROSION CONTROL - TEMPORARY STAGE 3-4	SHEET 131	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\022001_EC3.DWG
LAYOUT NAME - 022001

PLOT DATE : 4/26/2021 7:42 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:100 FT

2



PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	EROSION CONTROL - TEMPORARY STAGE 3-4	SHEET 132	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\022001_EC3.DWG
LAYOUT NAME - 022002

PLOT DATE : 4/26/2021 7:43 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

WETLAND BOUNDARY

WETLAND BOUNDARY

WETLAND BOUNDARY

WETLAND BOUNDARY

125+00 126+00 127+00 128+00 129+00 130+00 131+00 132+00 133+00 134+00 135+00 136+00 137+00 138+00 139+00 140+00

140+00.00

STH 57 (GREEN BAY ROAD)

DEERWOOD DR.

DEERWOOD DR

SIGN

SIGN

HW

MH

MH

INL

INL

CANOPY

N

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	EROSION CONTROL - TEMPORARY STAGE 3-4	SHEET 133	E

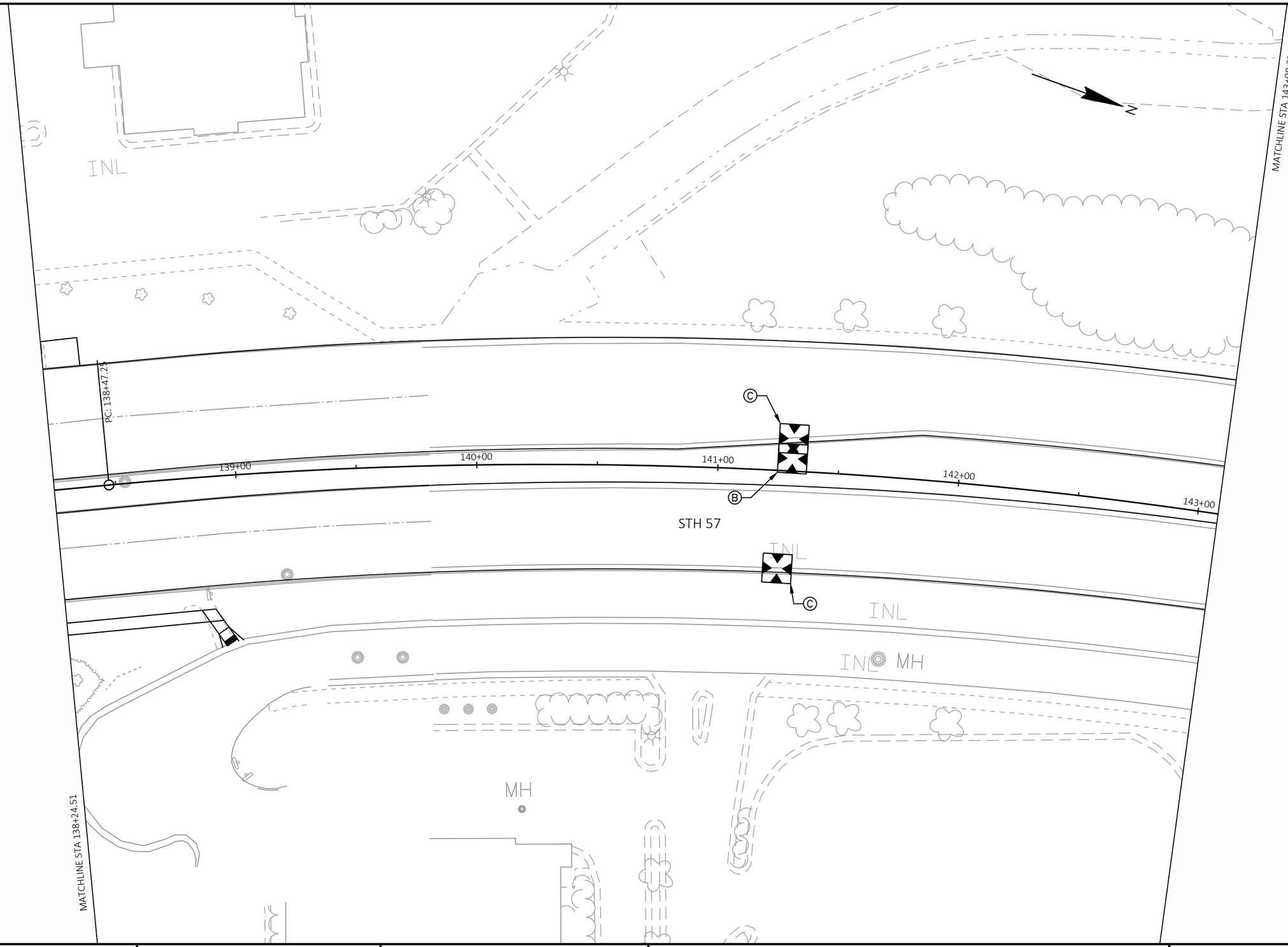
FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\022001_EC3.DWG
LAYOUT NAME - 022003

PLOT DATE : 4/26/2021 7:43 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2



PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	EROSION CONTROL PLAN STAGE 3 - 5	SHEET 134	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\022003_EC.DWG
LAYOUT NAME - 022002_2

PLOT DATE : 4/1/2021 5:48 PM PLOT BY : JOHNATHAN OLSON PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

MATCHLINE STA 148+36.34

MATCHLINE STA 143+08.33

N

SIGN

HW

INL

MH

C

B

P.I. 146+61.27

144+00

145+00

146+00

147+00

148+00

STH 57

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	EROSION CONTROL PLAN STAGE 3 - 5	SHEET 135	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\022003_EC.DWG
LAYOUT NAME - 022002_3

PLOT DATE : 4/1/2021 5:48 PM PLOT BY : JOHNATHAN OLSON PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

SCHROEDER DR

INL

SIGN

SIGN

SIGN

SIGN

N

MATCHLINE STA 153+66.34

MATCHLINE STA 148+36.34

149+00

150+00

151+00

152+00

153+00

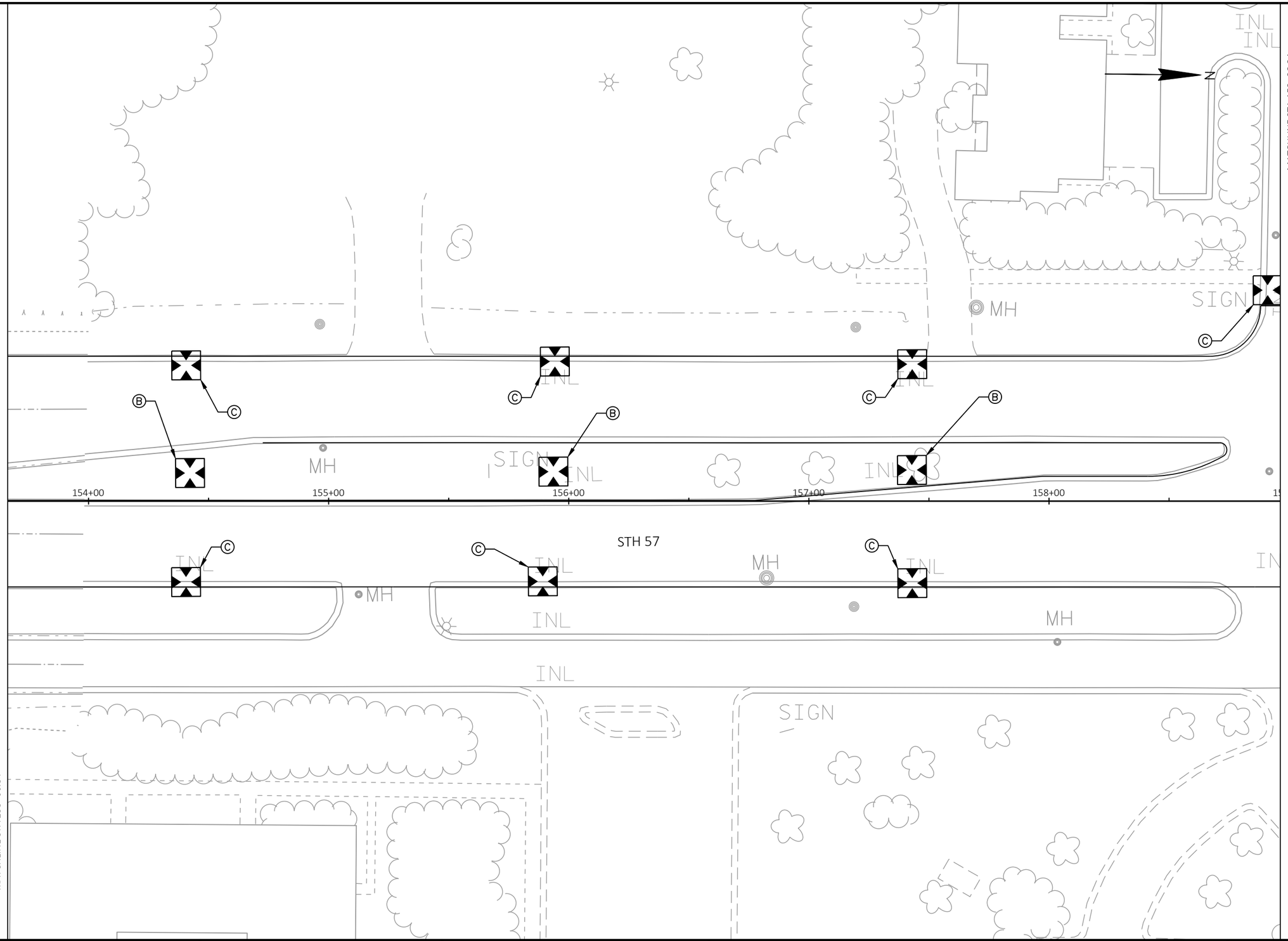
STH 57

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	EROSION CONTROL PLAN STAGE 3 - 5	SHEET 136	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\022003_EC.DWG
LAYOUT NAME - 022002_4

PLOT DATE : 4/1/2021 5:49 PM PLOT BY : JOHNATHAN OLSON PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42



2

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	EROSION CONTROL PLAN STAGE 3 - 5	SHEET 137	E

2

2

DEER RUN DR

MH

MH

MH

MH

INL

INL

INL

INL

INL

INL

INL

INL

INL

INL

INL

INL

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N

159+00

160+00

161+00

162+00

163+00

164+00

STH 57

SIGN

MATCHLINE STA 164+26.34

MATCHLINE STA 158+96.34

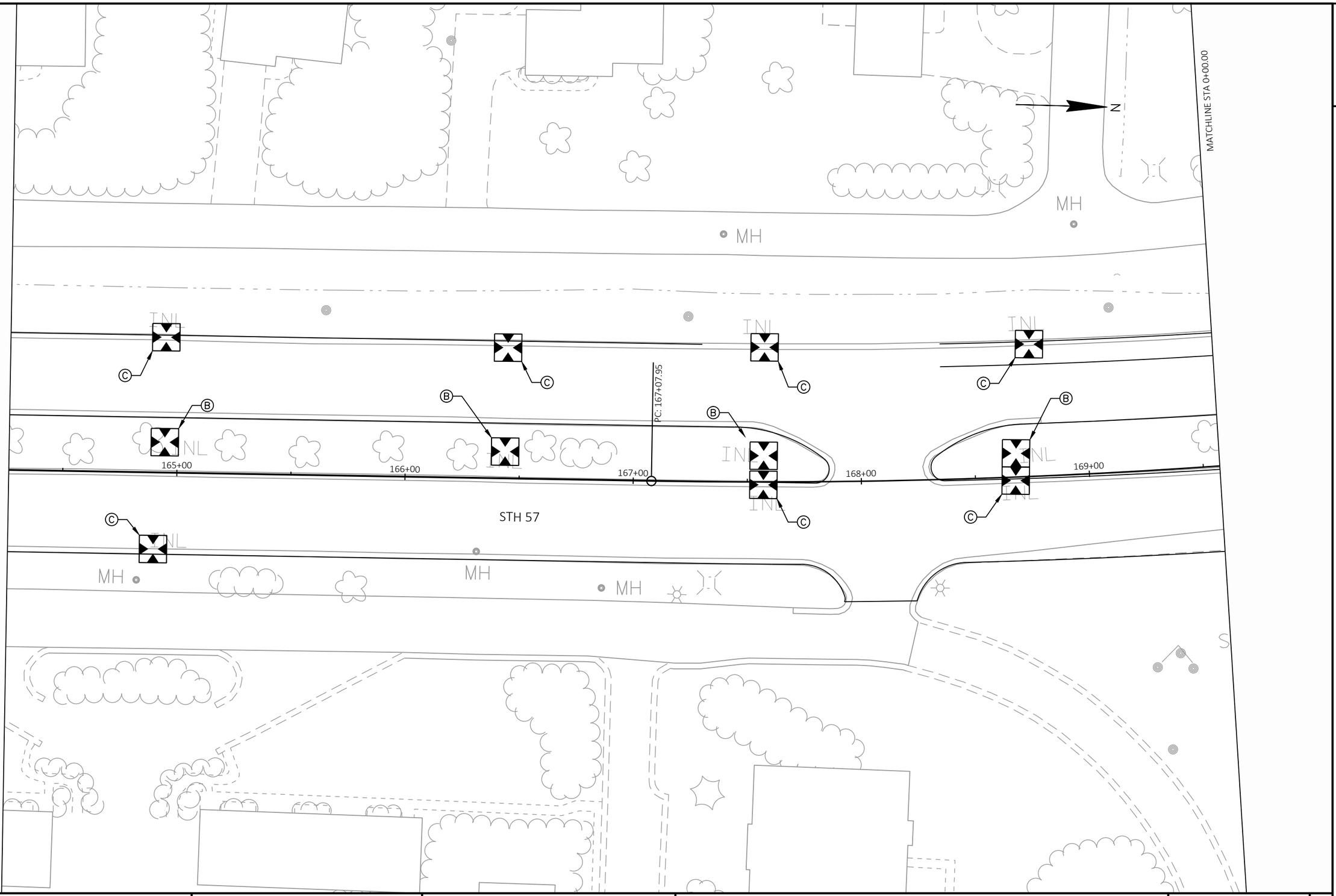
PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	EROSION CONTROL PLAN STAGE 3 - 5	SHEET 138	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\022003_EC.DWG
LAYOUT NAME - 022002_6

PLOT DATE : 4/1/2021 5:49 PM PLOT BY : JOHNATHAN OLSON PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

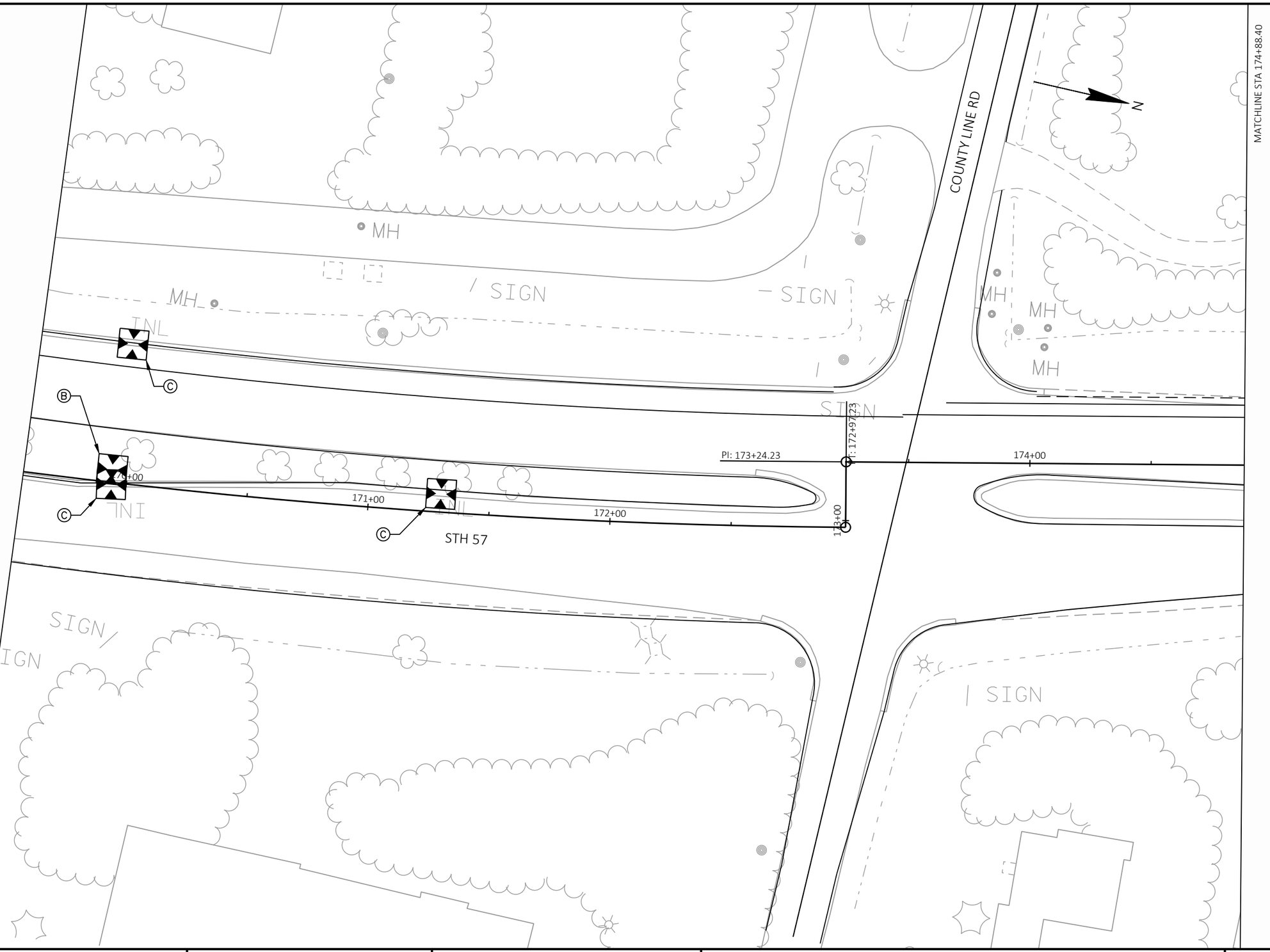
2



PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	EROSION CONTROL PLAN STAGE 3 - 5	SHEET 139	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\022003_EC.DWG
LAYOUT NAME - 022002_7
PLOT DATE : 4/1/2021 5:49 PM
PLOT BY : JOHNATHAN OLSON
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

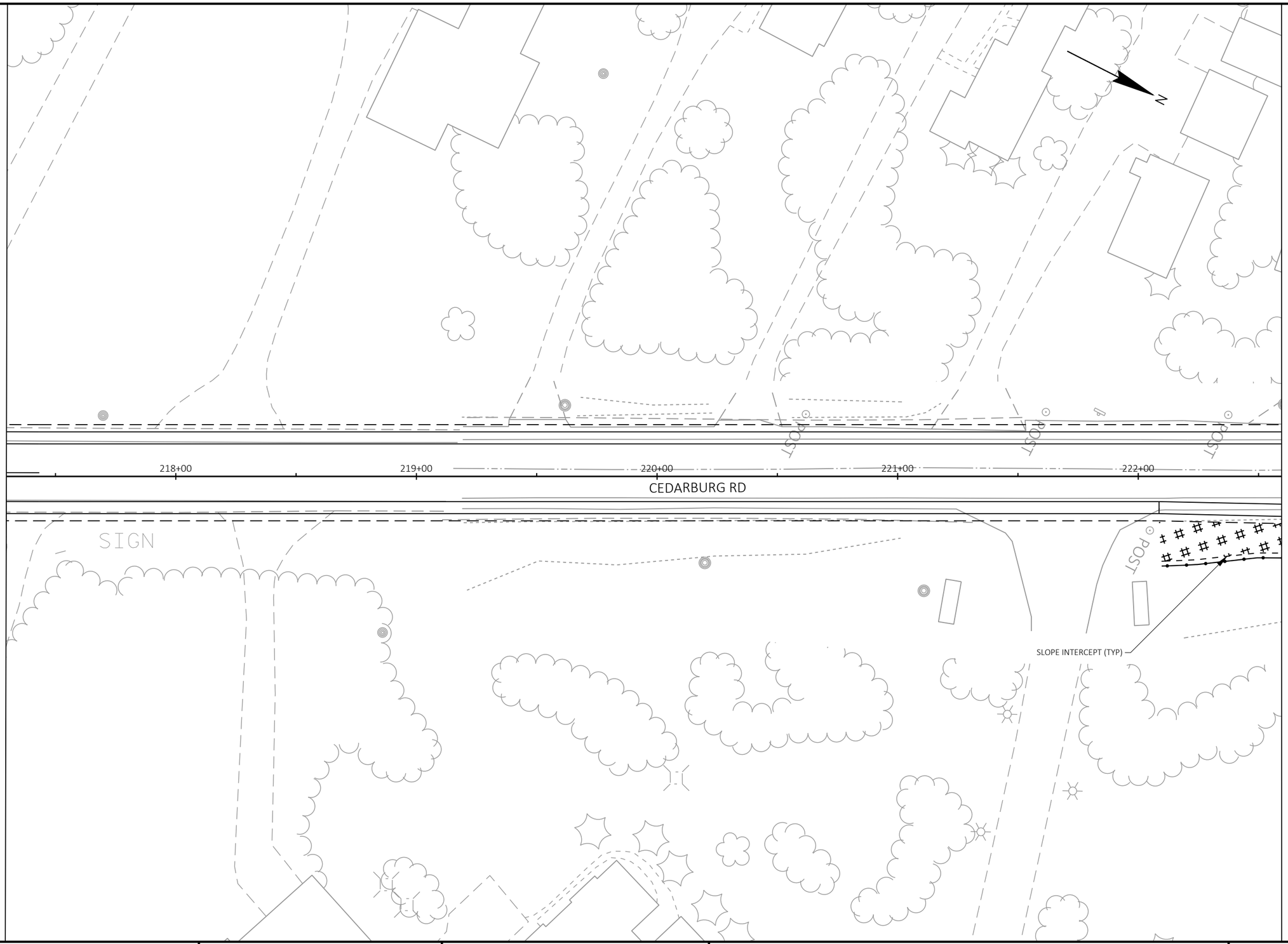
2



PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	EROSION CONTROL PLAN STAGE 3 - 5	SHEET 140	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\022003_EC.DWG
LAYOUT NAME - 022002_8
PLOT DATE : 4/1/2021 5:50 PM
PLOT BY : JOHNATHAN OLSON
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



2

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	EROSION CONTROL PLAN STAGE 3 - 5	SHEET 141	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\022003_EC.DWG
LAYOUT NAME - 022002_17

PLOT DATE : 4/1/2021 5:51 PM PLOT BY : JOHNATHAN OLSON PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

MATCHLINE STA 227+89.58

N

223+00

224+00

225+00

226+00

227+00

CEDARBURG RD

SLOPE INTERCEPT (TYP)

SLOPE INTERCEPT (TYP)

MH

MATCHLINE STA 222+59.58

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	EROSION CONTROL PLAN STAGE 3 - 5	SHEET 142	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\022003_EC.DWG
LAYOUT NAME - 022002_18

PLOT DATE : 4/1/2021 5:52 PM PLOT BY : JOHNATHAN OLSON PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

MATCHLINE STA 233+19.58

MATCHLINE STA 227+89.58

PI: 229+72.15

228+00 229+00 230+00 231+00 232+00 233+00

CEDARBURG RD

DONGES BAY RD

SIGN

FILLER CAPS

CANOPY

FILLER CAPS

SLOPE INTERCEPT (TYP)

SLOPE INTERCEPT (TYP)

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	EROSION CONTROL PLAN STAGE 3 - 5	SHEET 143	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\022003_EC.DWG
LAYOUT NAME - 022002_19

PLOT DATE : 4/1/2021 5:52 PM PLOT BY : JOHNATHAN OLSON PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

MATCHLINE STA 238+49.58

234+00 235+00 236+00 237+00 238+00

CEDARBURG RD

SLOPE INTERCEPT (TYP)

MATCHLINE STA 233+19.58

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	EROSION CONTROL PLAN STAGE 3 - 5	SHEET 144	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\022003_EC.DWG
LAYOUT NAME - 022002_20

PLOT DATE : 4/1/2021 5:52 PM PLOT BY : JOHNATHAN OLSON PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

BAYBERRY PKWY

SIGN

MATCHLINE STA 243+79.58

239+00 240+00 241+00 242+00 243+00

CEDARBURG RD

SLOPE INTERCEPT (TYP)

MATCHLINE STA 238+49.58

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	EROSION CONTROL PLAN STAGE 3 - 5	SHEET 145	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\022003_EC.DWG
LAYOUT NAME - 022002_21

PLOT DATE : 4/1/2021 5:52 PM PLOT BY : JOHNATHAN OLSON PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

480+00
481+00
482+00
483+00
484+00
485+00
486+00
487+00
488+00
489+00
490+00
491+00
492+00
493+00
494+00

CANADIAN NATIONAL RAILWAY

N. DEERBROOK TRAIL

WETLAND BOUNDARY

STH 100 (W. BROWN DEER ROAD)

N. DEERWOOD DRIVE

SIGN

SIGN

MH

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	EROSION CONTROL - TEMPORARY STAGE 3-4	SHEET 146	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\022002_EC3.DWG
LAYOUT NAME - 022014

PLOT DATE : 4/26/2021 7:47 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

N

509+00.00

494+00.00

WETLAND BOUNDARY

WETLAND BOUNDARY

WETLAND BOUNDARY

WETLAND BOUNDARY

STH 100 (W. BROWN DEER ROAD)

STH 57 (GREEN BAY ROAD)

N. KILDEER COURT

KILDEER CT.

RIVER LN.

494+00 495+00 496+00 497+00 498+00 499+00 500+00 501+00 502+00 503+00 504+00 505+00 506+00 507+00 508+00 509+00

125+00 124+00 123+00 122+00 121+00 120+00 119+00 118+00 117+00 116+00

SIGN SIGN MH MH MH INL INL INL

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	EROSION CONTROL - TEMPORARY STAGE 3-4	SHEET 147	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\022002_EC3.DWG
LAYOUT NAME - 022015

PLOT DATE : 4/26/2021 7:47 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

STH 57 (GREEN BAY ROAD)

STH 100 (W. BROWN DEER ROAD)

110+00 111+00 112+00 113+00 114+00 115+00 116+00 117+00 118+00 119+00 120+00 121+00 122+00 123+00 124+00 125

494+00 495+00 496+00 497+00 498+00 499+00 500+00 501+00 502+00 503

124+75.00

WETLAND BOUNDARY

WETLAND BOUNDARY

WETLAND BOUNDARY

SIGN

MH

W

GAS

HYD

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	EROSION CONTROL - PERMANENT STAGE 3	SHEET 148	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\022101_RT3.DWG
LAYOUT NAME - 022202

PLOT DATE : 4/29/2021 11:56 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

WETLAND BOUNDARY

WETLAND BOUNDARY

WETLAND BOUNDARY

DEERWOOD DR.

SIGN

SIGN

HW

MH

INL

W

125+00 126+00 127+00 128+00 129+00 130+00 131+00 132+00 133+00 134+00 135+00 136+00 137+00 138+00 139+00 140+00

140+00.00

STH 57 (GREEN BAY ROAD)

DEERWOOD DR

MH

INL

WETLAND BOUNDARY

CANOPY

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	EROSION CONTROL - PERMANENT STAGE 3	SHEET 149	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\022101_RT3.DWG
LAYOUT NAME - 022203

PLOT DATE : 4/29/2021 11:56 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

N

480+00
481+00
482+00
484+00
485+00
486+00
487+00
488+00
489+00
490+00
491+00
492+00
493+00
494+00

STH 100 (W. BROWN DEER ROAD)

N. DEERBROOK TRAIL

N. DEERWOOD DRIVE

WETLAND BOUNDARY

SIGN

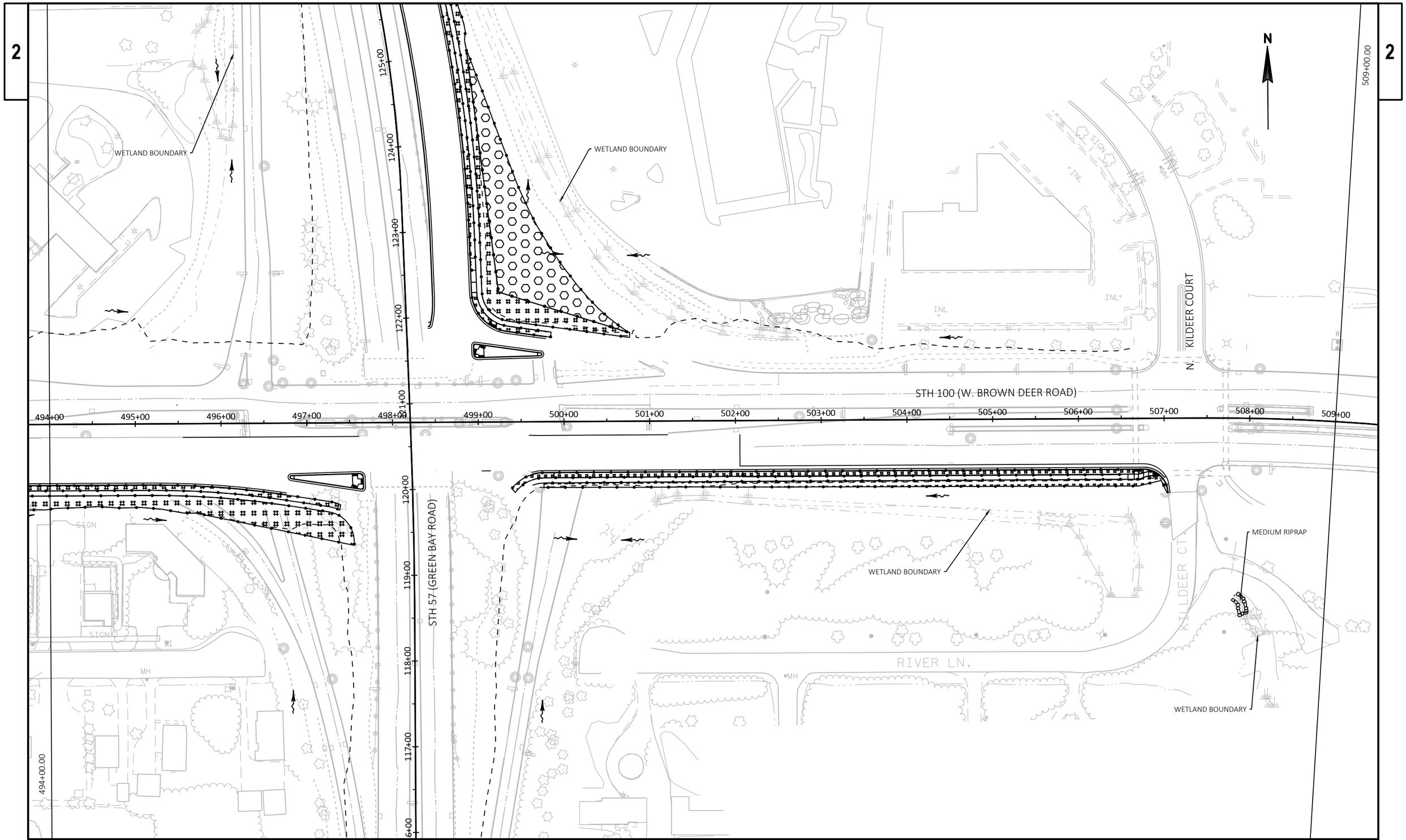
SIGN

MH

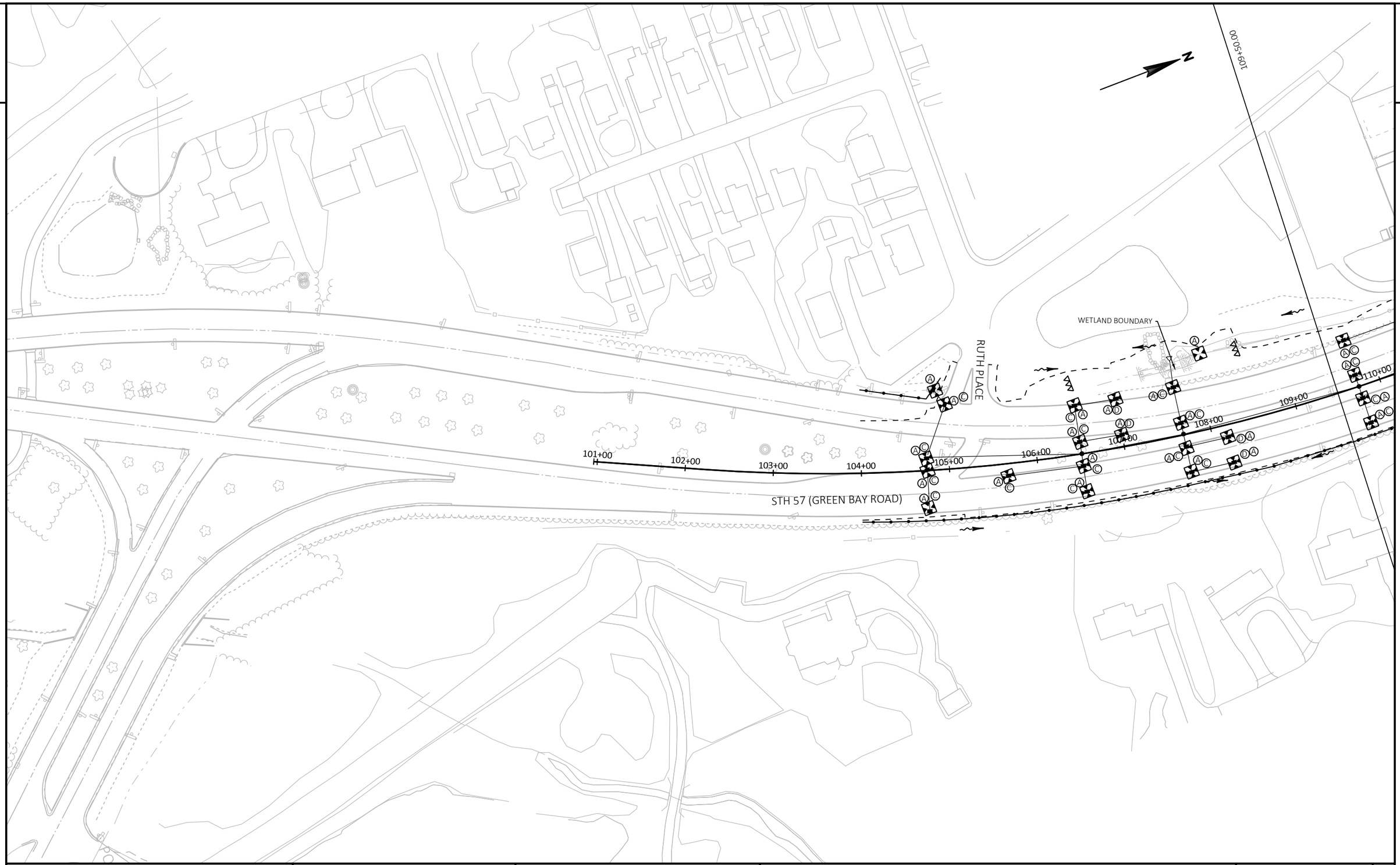
PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	EROSION CONTROL - PERMANENT STAGE 3	SHEET 150	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\022102_RT3.DWG
LAYOUT NAME - 022014

PLOT DATE : 4/29/2021 12:01 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:100 FT


N
WETLAND BOUNDARY
WETLAND BOUNDARY
125+00
124+00
123+00
122+00
121+00
120+00
119+00
118+00
117+00
6+00
494+00.00
509+00.00
494+00
495+00
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499+00
500+00
501+00
502+00
503+00
504+00
505+00
506+00
507+00
508+00
509+00
STH 100 (W. BROWN DEER ROAD)
STH 57 (GREEN BAY ROAD)
N. KILDEER COURT
KILDEER CT.
RIVER LN.
MEDIUM RIPRAP
WETLAND BOUNDARY
WETLAND BOUNDARY
SIGN
SIGN
MH
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INL
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2

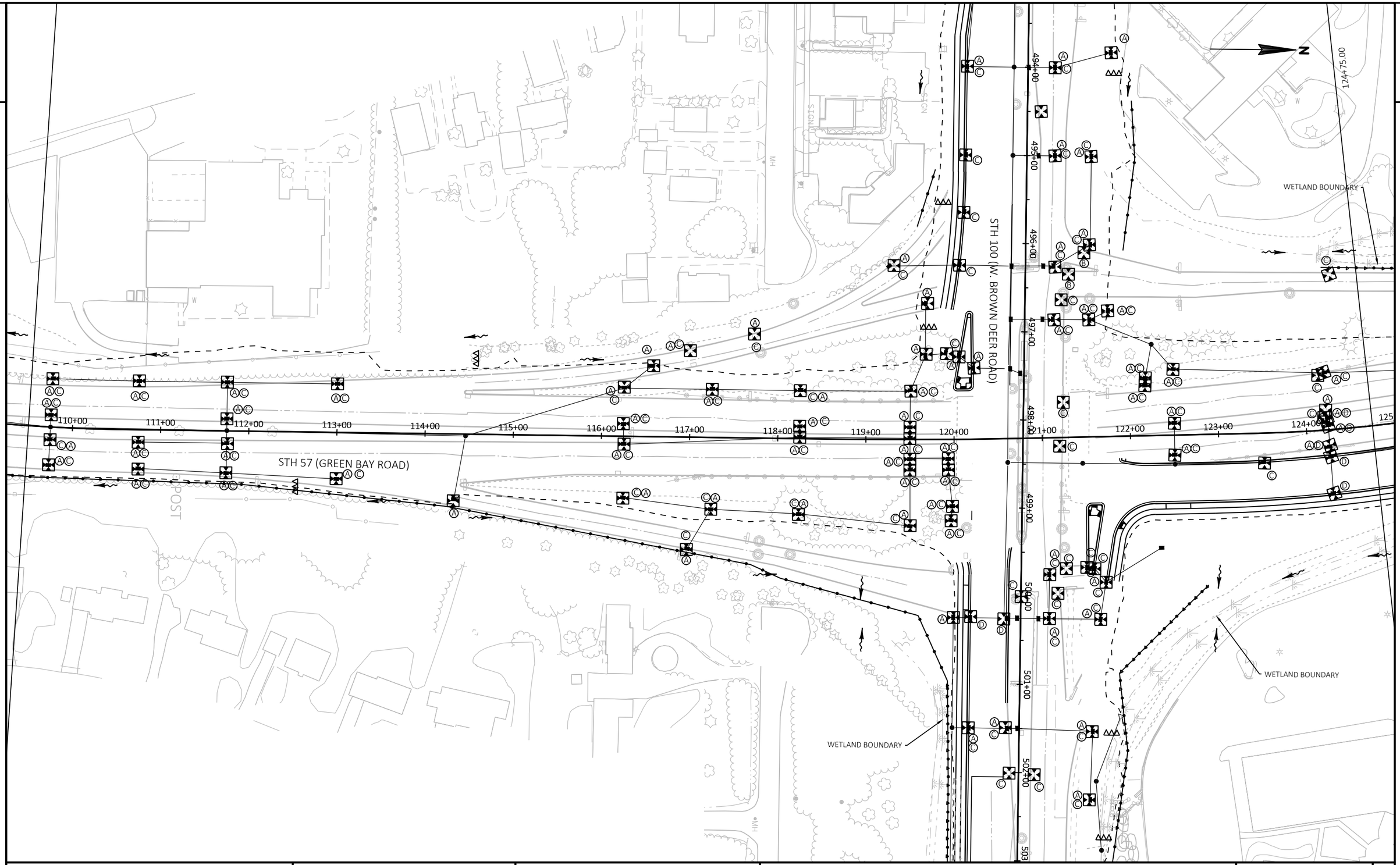


PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	EROSION CONTROL - TEMPORARY STAGE 5	SHEET 152	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\022001_EC5.DWG
LAYOUT NAME - 022201

PLOT DATE : 4/26/2021 7:53 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:100 FT

2



PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	EROSION CONTROL - TEMPORARY STAGE 5	SHEET 153	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\022001_EC5.DWG
LAYOUT NAME - 022202

PLOT DATE : 4/26/2021 7:54 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

WETLAND BOUNDARY

WETLAND BOUNDARY

WETLAND BOUNDARY

WETLAND BOUNDARY

STH 57 (GREEN BAY ROAD)

DEERWOOD DR.

DEERWOOD DR

125+00 126+00 127+00 128+00 129+00 130+00 131+00 132+00 133+00 134+00 135+00 136+00 137+00 138+00 139+00 140+00

140+00.00

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SIGN

SIGN

HW

MH

MH

W

INL

INL

CANOPY

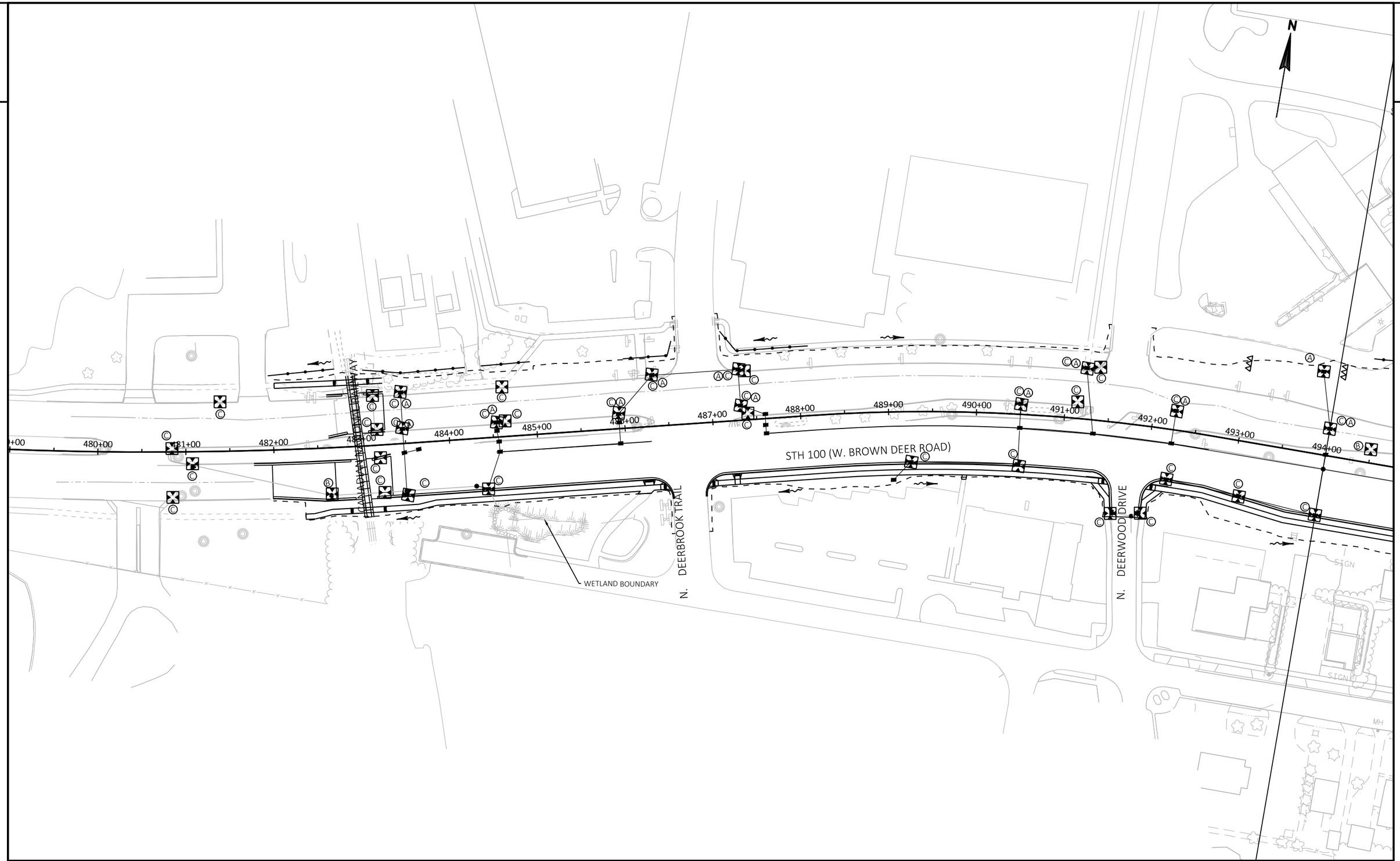
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FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\022001_EC5.DWG
LAYOUT NAME - 022203

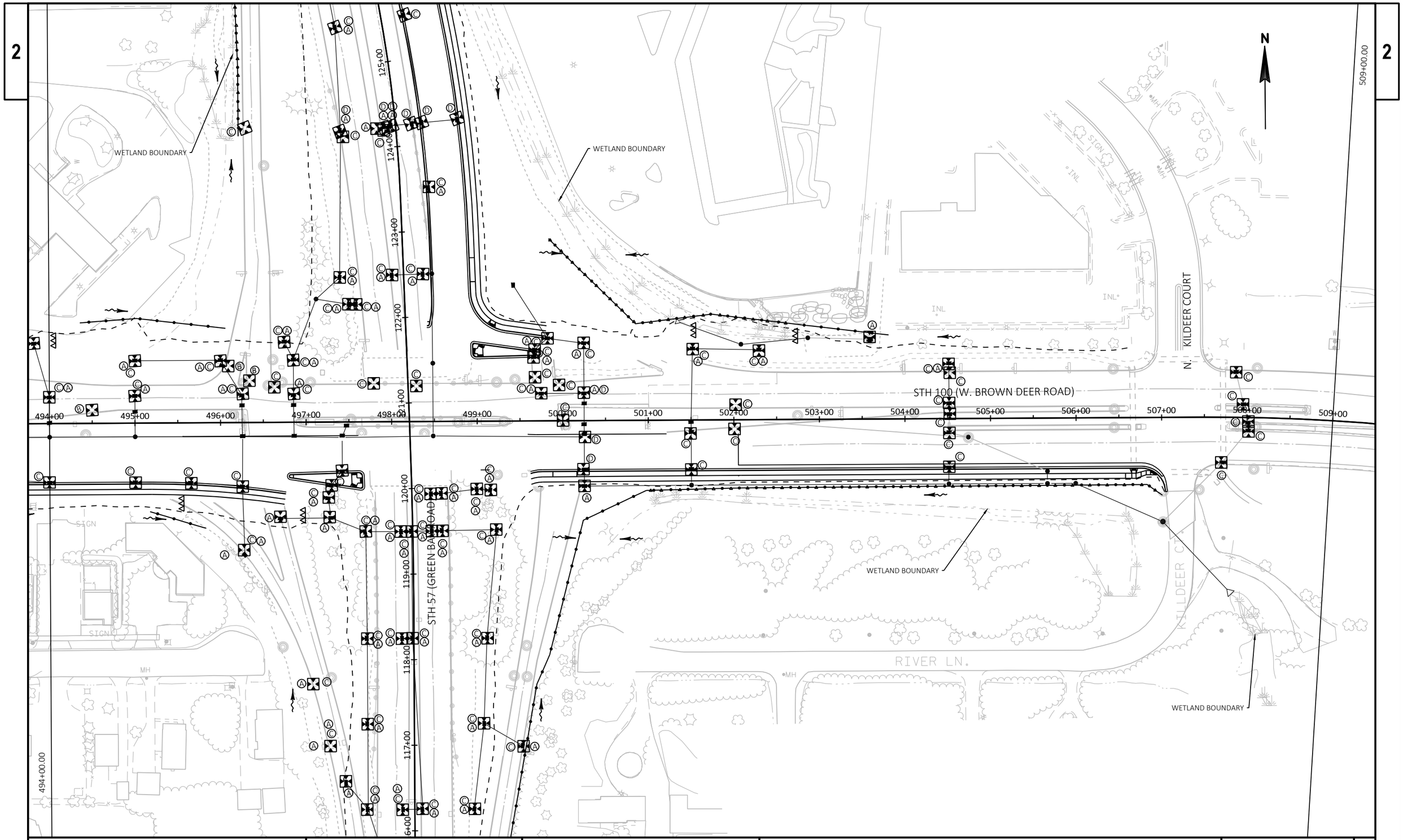
PLOT DATE : 4/26/2021 7:54 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

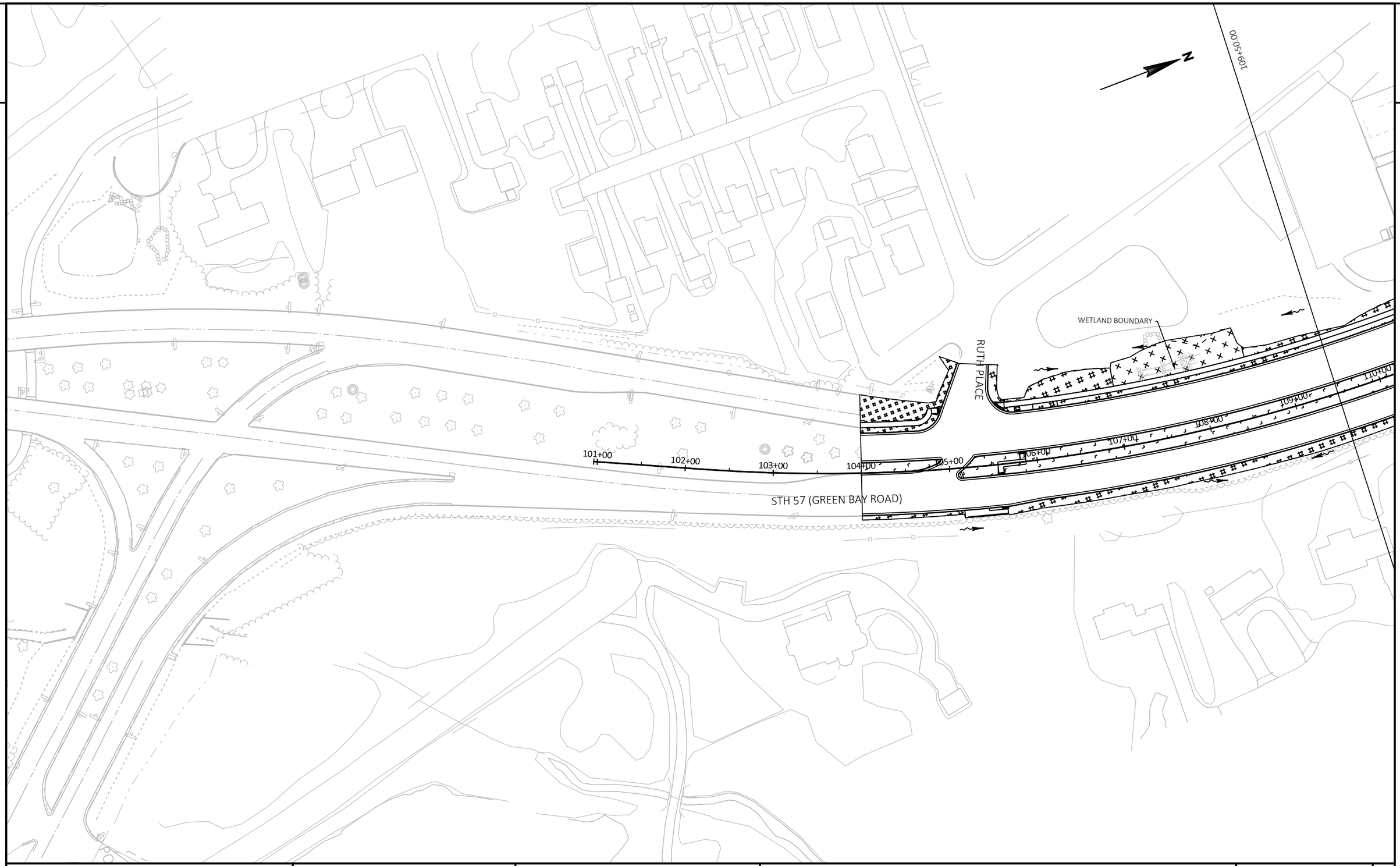


PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	EROSION CONTROL - TEMPORARY STAGE 5	SHEET 155	E


WETLAND BOUNDARY
WETLAND BOUNDARY
WETLAND BOUNDARY
WETLAND BOUNDARY
STH 100 (W. BROWN DEER ROAD)
N. KILDEER COURT
STH 57 (GREEN BAY ROAD)
RIVER LN.
494+00
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494+00.00
125+00
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PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	EROSION CONTROL - PERMANENT STAGE 5	SHEET 157	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\022101_RT5.DWG
LAYOUT NAME - 022201

PLOT DATE : 4/29/2021 11:58 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

STH 100 (W. BROWN DEER ROAD)

STH 57 (GREEN BAY ROAD)

WETLAND BOUNDARY

WETLAND BOUNDARY

WETLAND BOUNDARY

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	EROSION CONTROL - PERMANENT STAGE 5	SHEET 158	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\022101_RT5.DWG
LAYOUT NAME - 022202

PLOT DATE : 4/29/2021 11:59 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:100 FT

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WETLAND BOUNDARY

WETLAND BOUNDARY

WETLAND BOUNDARY

WETLAND BOUNDARY

125+00 126+00 127+00 128+00 129+00 130+00 131+00 132+00 133+00 134+00 135+00 136+00 137+00 138+00 139+00 140+00

140+00.00

STH 57 (GREEN BAY ROAD)

DEERWOOD DR.

DEERWOOD DR

SIGN

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CANOPY

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PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	EROSION CONTROL - PERMANENT STAGE 5	SHEET 159	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\022101_RT5.DWG
LAYOUT NAME - 022203

PLOT DATE : 4/29/2021 11:59 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

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STH 100 (W. BROWN DEER ROAD)

N. DEERBROOK TRAIL

WETLAND BOUNDARY

N. DEERWOOD DRIVE

SIGN

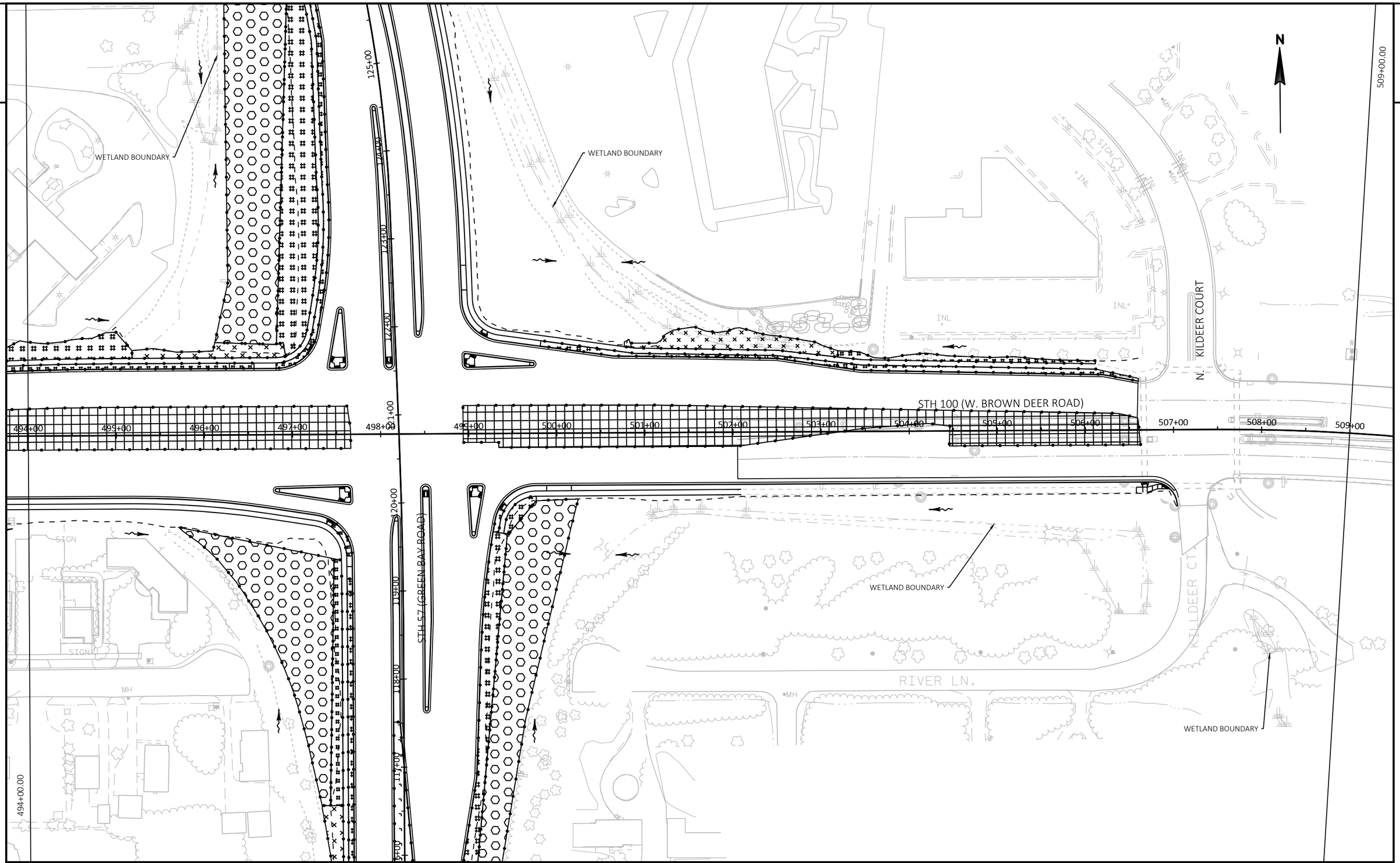
SIGN

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PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	EROSION CONTROL - PERMANENT STAGE 5	SHEET 160	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\022102_RT5.DWG
LAYOUT NAME - 022014

PLOT DATE : 4/29/2021 12:04 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:100 FT



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PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	EROSION CONTROL - PERMANENT STAGE 5	SHEET 161	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\022102_RT5.DWG
LAYOUT NAME - 022015
PLOT DATE : 4/29/2021 12:04 PM
PLOT BY : TONY BUBLITZ
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

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STH 100 (W. BROWN DEER ROAD)

N. DEERBROOK TRAIL

N. DEERWOOD DRIVE

WETLAND BOUNDARY

SIGN

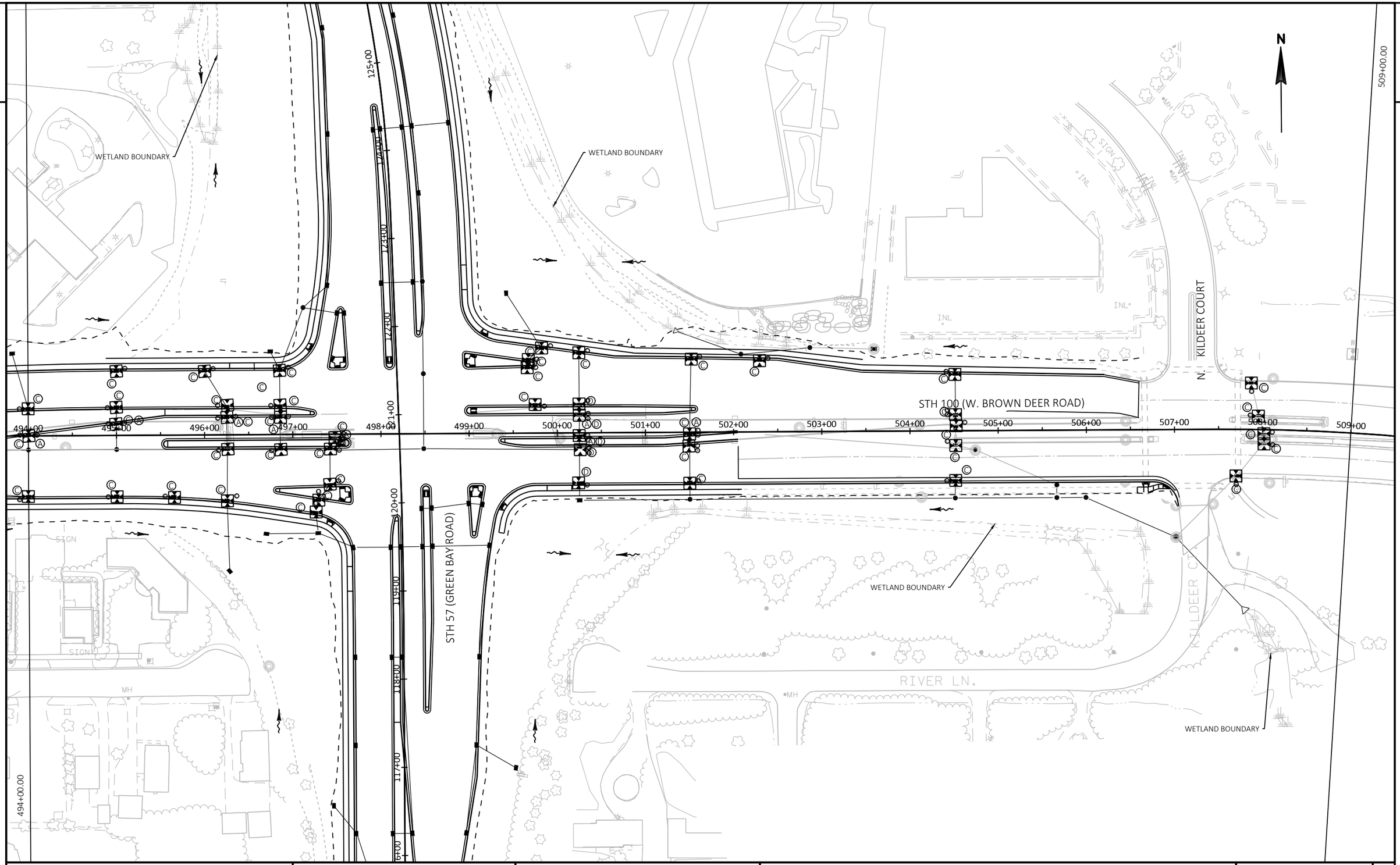
SIGN

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PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	EROSION CONTROL - TEMPORARY STAGE 6	SHEET 162	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\022002_EC6.DWG
LAYOUT NAME - 022014

PLOT DATE : 4/29/2021 11:50 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:100 FT



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PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	EROSION CONTROL - TEMPORARY STAGE 6	SHEET 163	E

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489+00
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492+00
493+00
494+00

SEE LANDSCAPING PLANS FOR FINAL RESTORATION

SEE LANDSCAPING PLANS FOR FINAL RESTORATION

SEE LANDSCAPING PLANS FOR FINAL RESTORATION

STH 100 (W. BROWN DEER ROAD)

N. DEERBROOK TRAIL

N. DEERWOOD DRIVE

WETLAND BOUNDARY

SIGN

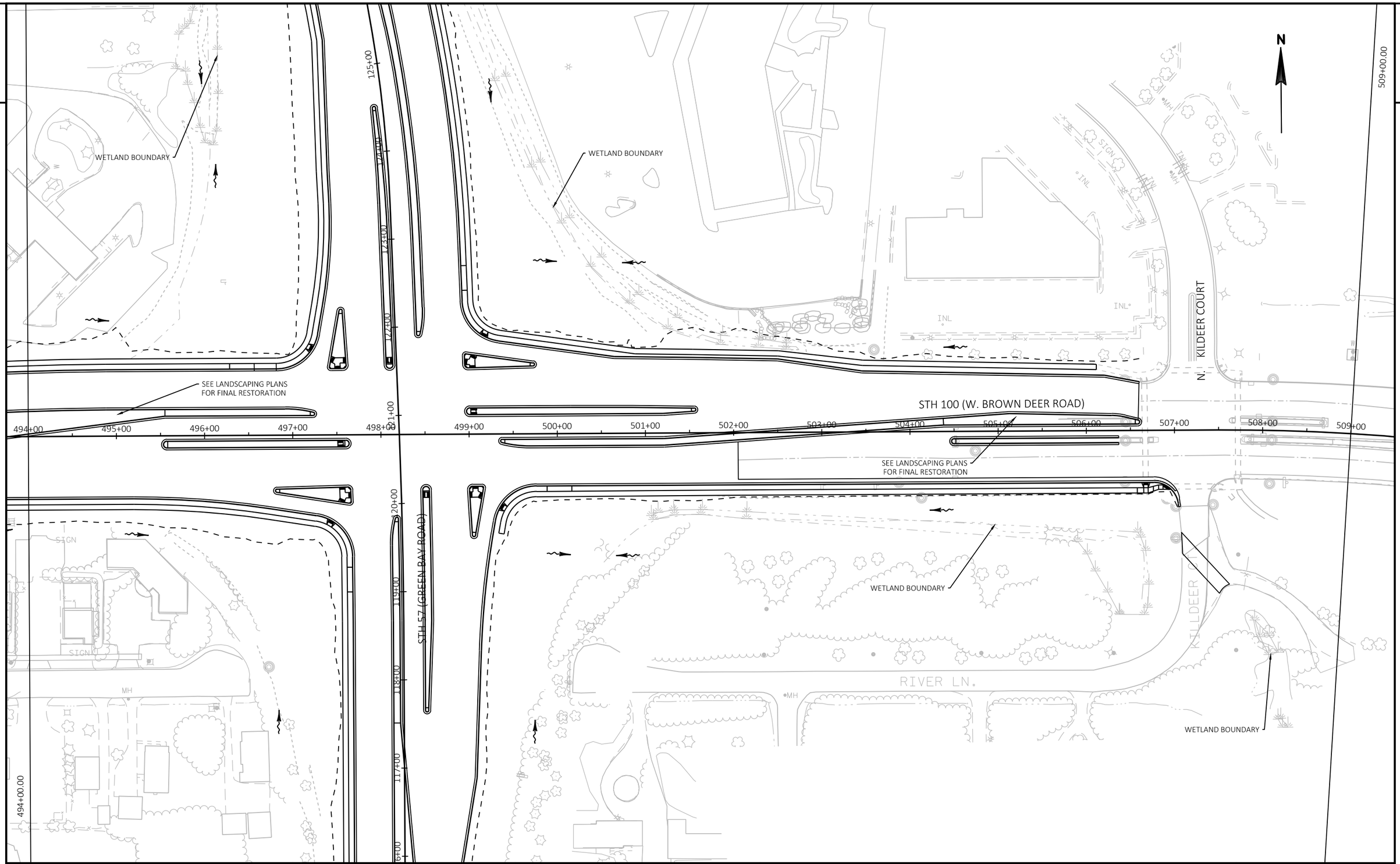
SIGN

MH

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	EROSION CONTROL - PERMANENT STAGE 6	SHEET 164	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\022102_RT6.DWG
LAYOUT NAME - 022014

PLOT DATE : 4/29/2021 12:06 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:100 FT



2

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	EROSION CONTROL - PERMANENT STAGE 6	SHEET 165	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\022102_RT6.DWG
LAYOUT NAME - 022015
PLOT DATE : 4/29/2021 12:07 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

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N

MILWAUKEE RIVER

N. UPPER RIVER ROAD

UPPER RIVER RD.

TANKS

SIGN

508+00 509+00 510+00 511+00 512+00 513+00 514+00 515+00 516+00 517+00 518+00 519+00 520+00 521+00 522+00 523+0

SEE LANDSCAPING PLANS FOR FINAL RESTORATION

STH 100 (W. BROWN DEER ROAD)

SEE LANDSCAPING PLANS FOR FINAL RESTORATION

MILWAUKEE R.

WETLAND BOUNDARY

509+00.00

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	EROSION CONTROL - PERMANENT STAGE 6	SHEET 166	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\022102_RT6.DWG
LAYOUT NAME - 022016

PLOT DATE : 4/29/2021 12:07 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

GENERAL DRAINAGE NOTES

LOCATION AND ELEVATION OF INLETS IN CURB AND GUTTER SECTION REFER TO FLOW LINE OF CURB.

LOCATION AND ELEVATION OF STORM SEWER STRUCTURES NOT IN CURB AND GUTTER REFER TO CENTERLINE OF COVER.

RIM ELEVATIONS ARE GIVEN AT FLOW LINE OF INLET OR AT CENTER OF MANHOLE. SEE STRUCTURE LOCATION DETAIL.

PLAN LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE AND IS USED FOR ESTIMATING. PIPE LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE AND IS USED TO COMPUTE PIPE SLOPE.

INLET AND DISCHARGE ELEVATIONS FOR DRAINAGE STRUCTURES AND PIPES SHOWN ON THE PLANS MAY BE ADJUSTED BY THE ENGINEER TO FIT EXISTING FIELD CONDITIONS.

PROVIDE JOINT TIES ON CONCRETE STORM SEWER SYSTEM INFALL AND OUTFALL PIPES. TIE THE ENDWALL JOINT AND THE NEXT 2 PIPE JOINTS.

FOR STRUCTURES AND PIPES OUTSIDE THE TRAVELED WAY INCLUSIVE OF SHOULDERS, NATIVE BACKFILL MAY BE USED AND SHALL CONFORM TO SECTION 207 EMBANKMENT SPECIFICATIONS.

FOR STRUCTURES AND PIPES WITHIN THE TRAVELED WAY INCLUSIVE OF SHOULDERS, BACKFILL SHALL CONFORM TO SECTION 209 AND BE PAID FOR AS BACKFILL GRANULAR GRADE 1.

UTILITY INFORMATION SHOWN ON THE PLANS IS APPROXIMATE. LOCATIONS SHOWN ARE TAKEN FROM EXISTING RECORDS AND BEST INFORMATION AVAILABLE FROM EXISTING PLANS. IT IS EXPECTED THAT THERE MAY BE DISCREPANCIES AND OMISSIONS IN THE LOCATION OF UTILITIES AND STRUCTURES SHOWN. VERIFY ALL LOCATIONS IN THE FIELD.

COORDINATE WITH DIGGERS HOTLINE TO FIELD LOCATE UTILITIES. SHEETING SHALL NOT GO THROUGH UTILITIES. ANY UTILITIES DAMAGED DUE TO CONTRACTOR ACTIVITIES SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE COMPLETE SATISFACTION OF THE UTILITY FACILITY.

VERIFY THE EXISTING STORM SEWER SYSTEM CONNECTION LOCATIONS AND ELEVATIONS PRIOR TO ORDERING DRAINAGE STRUCTURES AND PIPES. NOTIFY THE ENGINEER OF ANY DEVIATIONS FROM THE INFORMATION SHOWN ON THE PLANS PRIOR TO INSTALLING THE PROPOSED STORM SEWER.

SEE STORM SEWER REMOVAL PLANS FOR REMOVAL OF EXISTING STORM SEWER SYSTEM.

PROVIDE BOLTED COVERS FOR MANHOLE COVERS TYPE J SPECIAL. COST OF PROVIDING BOLTED COVERS IS CONSIDERED INCIDENTAL TO COVER.

PROVIDE TEMPORARY POSITIVE DRAINAGE THROUGHOUT THE PROJECT DURING ALL PROJECT STAGES. PROVIDING TEMPORARY POSITIVE DRAINAGE IS INCIDENTAL TO CONSTRUCTION.

SUPPORTING UTILITIES DURING STORM SEWER CONSTRUCTION IS INCIDENTAL TO STORM SEWER PIPE AND/OR STORM SEWER STRUCTURE.

CONSTRUCTION AND REMOVAL OF TEMPORARY BULKHEAD IS CONSIDERED INCIDENTAL TO COST OF STORM SEWER PIPE OR STORM SEWER STRUCTURE WHEN A PIPE OR STRUCTURE IS CONSTRUCTED OR REMOVED IN MULTIPLE STAGES.

STORM SEWER PLAN & PROFILE NOTE:
PLAN VIEW HIGHLIGHTS CORRESPOND TO PROFILES SHOWN IN PROFILE BELOW PLAN VIEW (SAME SHEET). STORM SEWER STRUCTURES AND PIPES LABELED IN PLAN VIEW WITHOUT HIGHLIGHT ARE SHOWN ON THE NEXT PROFILE ONLY SHEET(S).

THE MANNING'S COEFFICIENT FOR CONCRETE STORM SEWER USED IN PIPE SIZE DETERMINATIONS IS 0.013.

STORM SEWER STAGING LEGEND

REMOVING INLETS

REMOVING MANHOLES

—RM 1 ———— RM— REMOVING STORM SEWER (BY STAGE)

—AB 3 ———— AB 3 ABANDONING STORM SEWER (BY STAGE)

STORM SEWER LEGEND

PROPOSED STORM SEWER PIPE PLAN VIEW

EXISTING STORM SEWER PLAN VIEW

EXISTING STORM SEWER PROFILE VIEW

*** PROPOSED DRAINAGE STRUCTURE

E*** EXISTING DRAINAGE STRUCTURE

PROPOSED MANHOLE

PROPOSED INLET

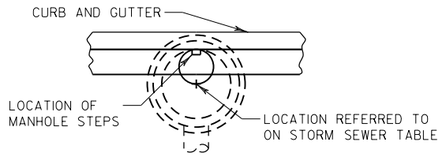
PROPOSED ENDWALL

P*** PROPOSED STORM SEWER PIPE

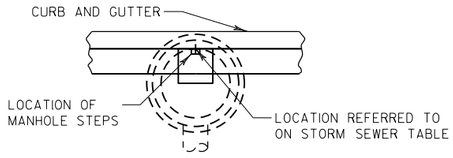
PE*** EXISTING STORM SEWER PIPE

* EXISTING PIPE INTEGRITY AND CONDITION TO BE DETERMINED DURING FINAL DESIGN.

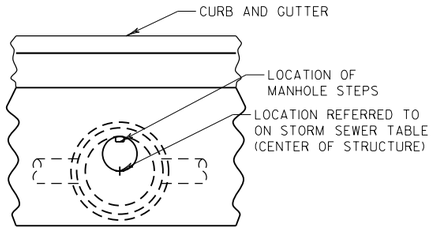
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MANHOLE IN CURB AND GUTTER

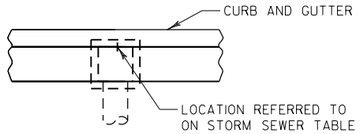


MANHOLE WITH INLET COVER IN CURB AND GUTTER

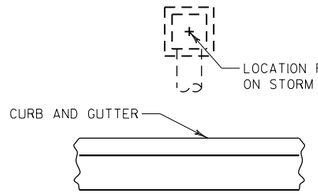


MANHOLE NOT IN CURB AND GUTTER

NOTE
1) LOCATION OF STRUCTURE MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
2) LOCATION AND SIZE OF STRUCTURE COVER OPENING DEPENDS ON TYPE OF CASTING. CASTING TYPES ARE SHOWN ON THE STORM SEWER TABLE.



INLET IN CURB AND GUTTER



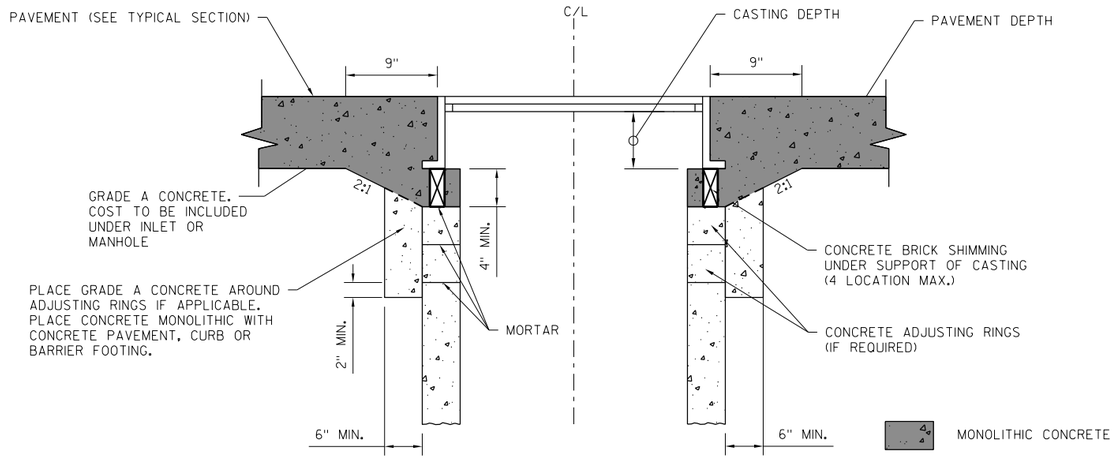
INLET NOT IN CURB AND GUTTER

STRUCTURE LOCATION DETAIL

NOTES

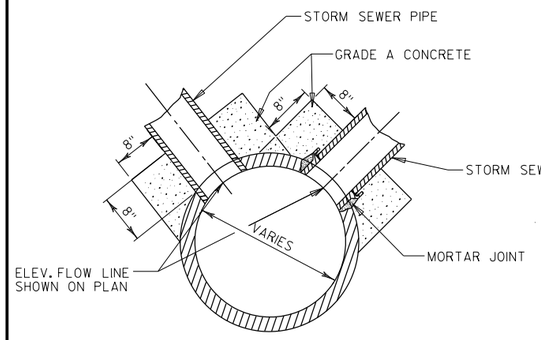
1) PROVIDE MONOLITHIC CONCRETE SHIMMING FOR FINAL ADJUSTMENT OF DRAINAGE STRUCTURES LOCATED WITHIN THE ROADWAY CONCRETE PAVEMENT AND CONCRETE CURB & GUTTER.

2) INCIDENTAL TO CONCRETE PAVEMENT AND CONCRETE CURB & GUTTER.

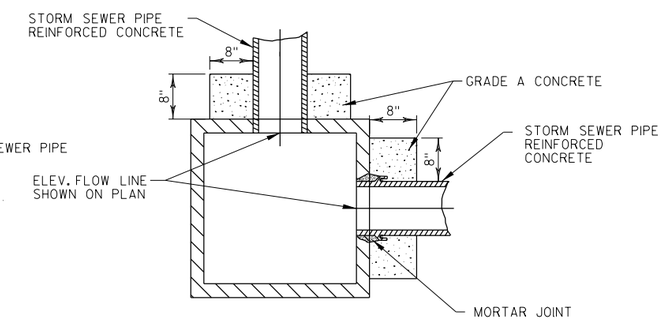


MONOLITHIC CONCRETE SHIMMING DETAIL

NOTE
CONCRETE COLLAR TO BE PAID AS A BID ITEM WHEN CONNECTING AN EXISTING PIPE TO A NEW STRUCTURE.



AT MANHOLE
INCIDENTAL TO NEW STRUCTURE AND NEW PIPE ITEMS



AT STORM SEWER INLET
INCIDENTAL TO NEW STRUCTURE AND NEW PIPE ITEMS

CONCRETE COLLAR DETAIL

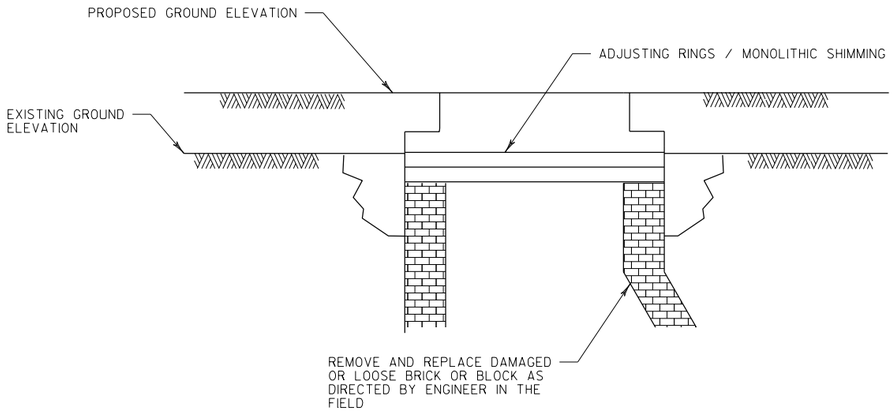
FOR LOCATIONS SEE MISCELLANEOUS QUANTITIES SHEETS

2

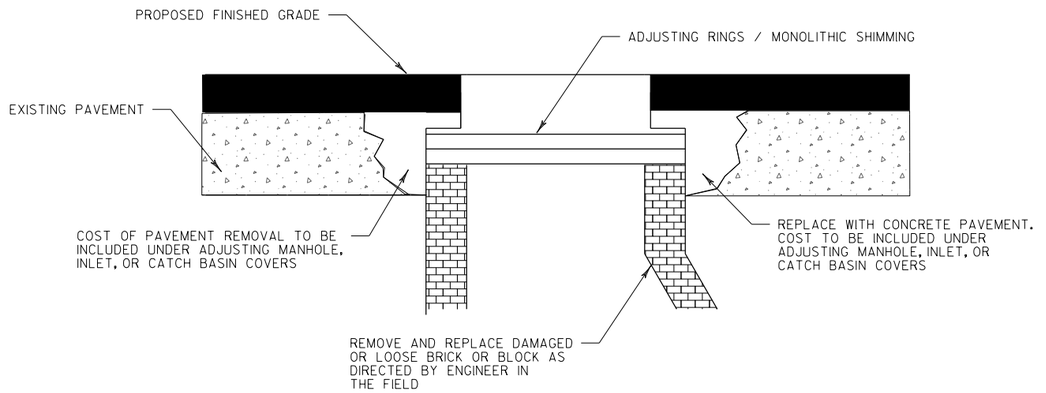
NOTES

1. IF EXISTING PAVEMENT REMOVAL IS NOT SHOWN IN THE REMOVAL PLANS AND A SAWCUT IS REQUIRED THE SAWCUT IS CONSIDERED INCIDENTAL TO ADJUSTING MANHOLE OR INLET COVERS.

2. ADJUST CHIMNEY WITH PROPER SIZE CONCRETE ADJUSTING RINGS (SIZE OF OPENING OF CONCRETE ADJUSTING RING TO BE DETERMINED BY SIZE OF OPENING IN FRAME) OR MONOLITHIC CONCRETE SHIMMING AND REINSTALL EXISTING FRAME AND LID TO FINISHED GRADE. BACKFILL AND OTHER WORK TO BE DONE IN ACCORDANCE WITH ITEM ADJUSTING INLET COVERS.

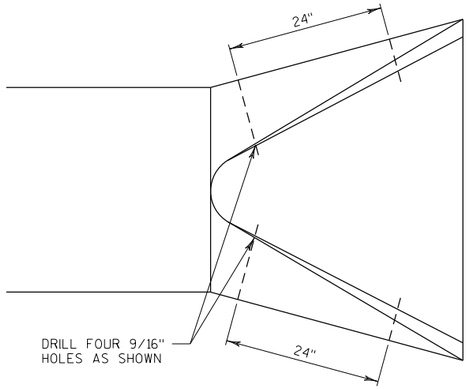


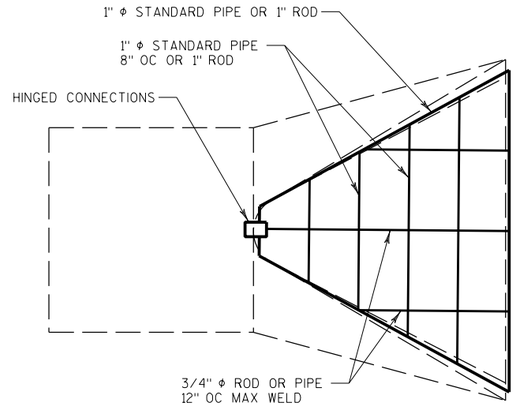
NON-PAVED LOCATION



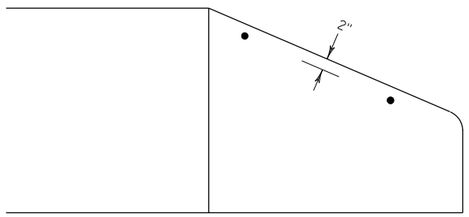
PAVED LOCATION

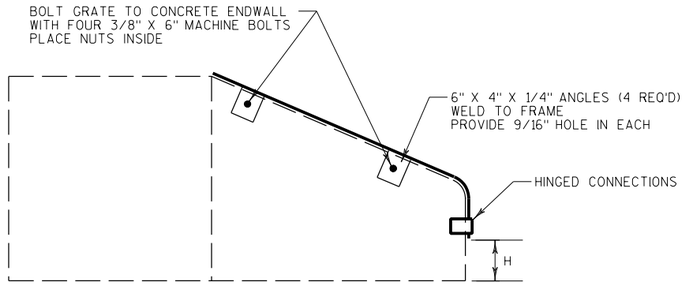
ADJUSTING MANHOLE OR INLET COVERS





AT EACH PIPE





GRATE BAR SIZES

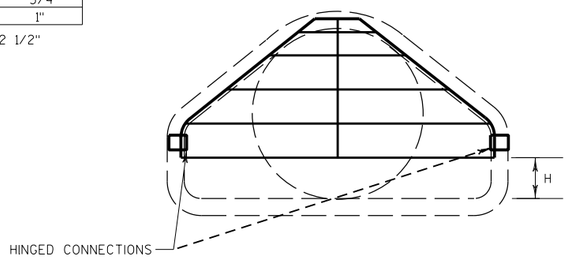
(STANDARD DESIGN)

	PIPE SIZE	HOLE DIAMETER REQUIRED	BOLT DIAMETER	BAR SIZE
ROUND PIPE	12" - 24"	3/4"	5/8"	5/8"
	27" - 48"	7/8"	3/4"	3/4"
	54" - 90"	1 1/8"	1"	1"
ARCH PIPE	22" - 29"	3/4"	5/8"	5/8"
	36" - 59"	7/8"	3/4"	3/4"
	65" - 85"	1 1/8"	1"	1"

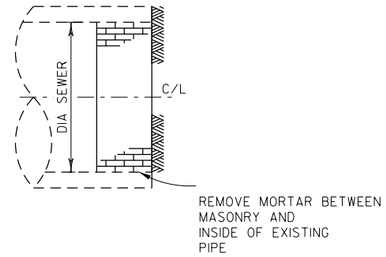
BOLT LENGTH = PIPE WALL THICKNESS + 2 1/2"

GRATE CLEARANCE HEIGHT

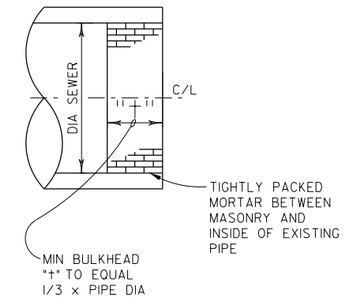
ROUND PIPE		ARCH PIPE	
PIPE SIZE	H	PIPE SIZE	H
12"	2 1/2"	22" - 29"	4"
15"	3"	36" - 44"	5"
18" - 24"	4"	51" - 65"	6"
27" - 36"	5"	73" - 85"	7"
42" - 54"	6"		
60" - 72"	7"		
78" - 90"	8"		



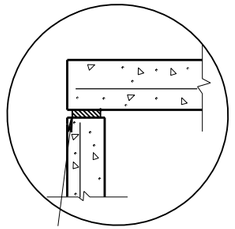
PIPE GRATE DETAIL



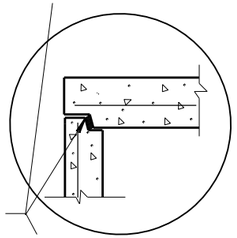
REMOVING BULKHEAD



BULKHEAD PIPE MASONRY

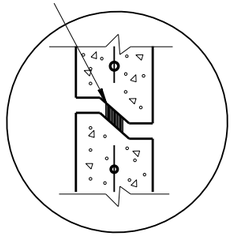


TOP WITH PLAIN END JOINT



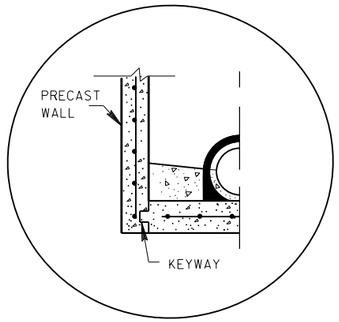
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT

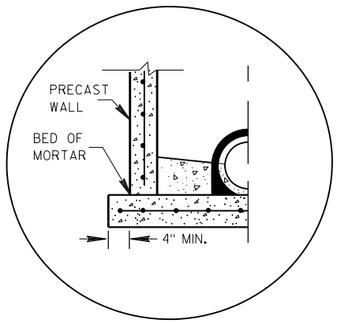


RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"



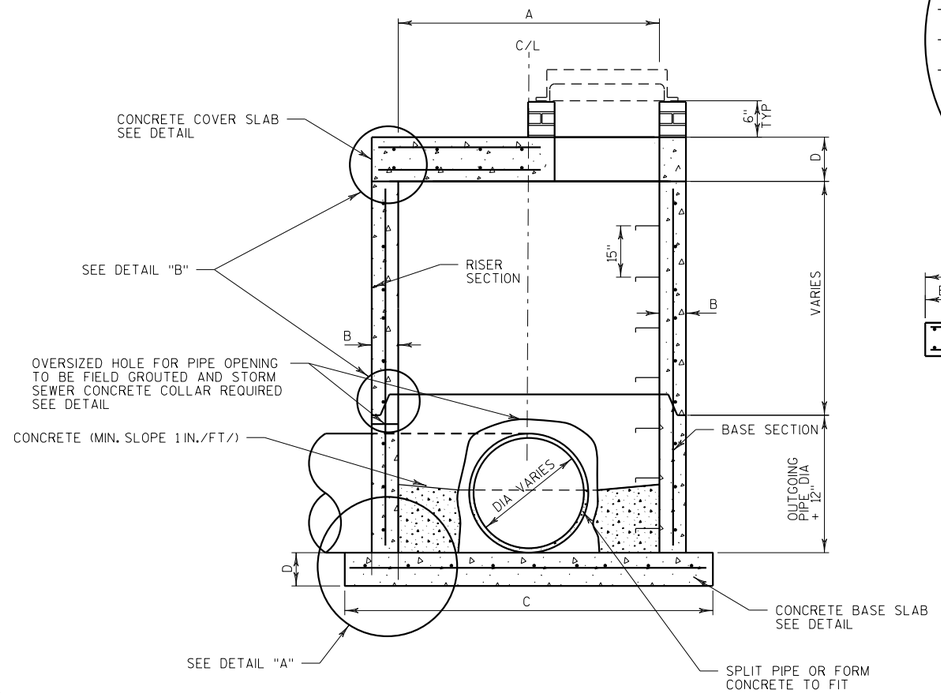
PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"

	A	B	C	D
MANHOLE 9-FT SPECIAL	108"	10"	132"	12"
MANHOLE 10-FT SPECIAL	120"	11"	146"	12"

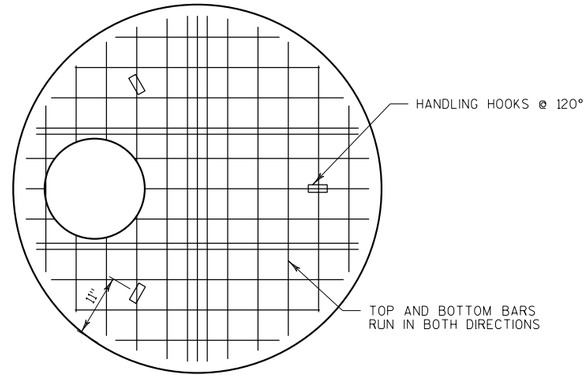


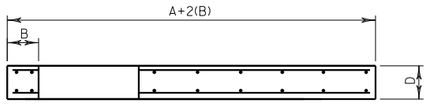
MANHOLE 9-FT SPECIAL

MANHOLE 10-FT SPECIAL

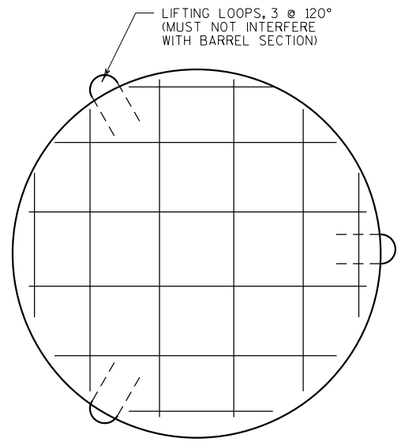
NOTES

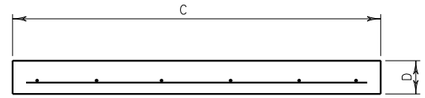
1) REINFORCING COMPLIES WITH ASTM C-478.
2) STEPS PLACED AT 15". STEPS COMPLY WITH ASTM C-478.
3) RISER & SLABS DESIGN FOR HS20 LOADING.





CONCRETE COVER SLAB





CONCRETE BASE SLAB

2

REMOVE STAGE 3

RUTH PLACE

REMOVE STAGE 3

R/L STH 57

STH 57

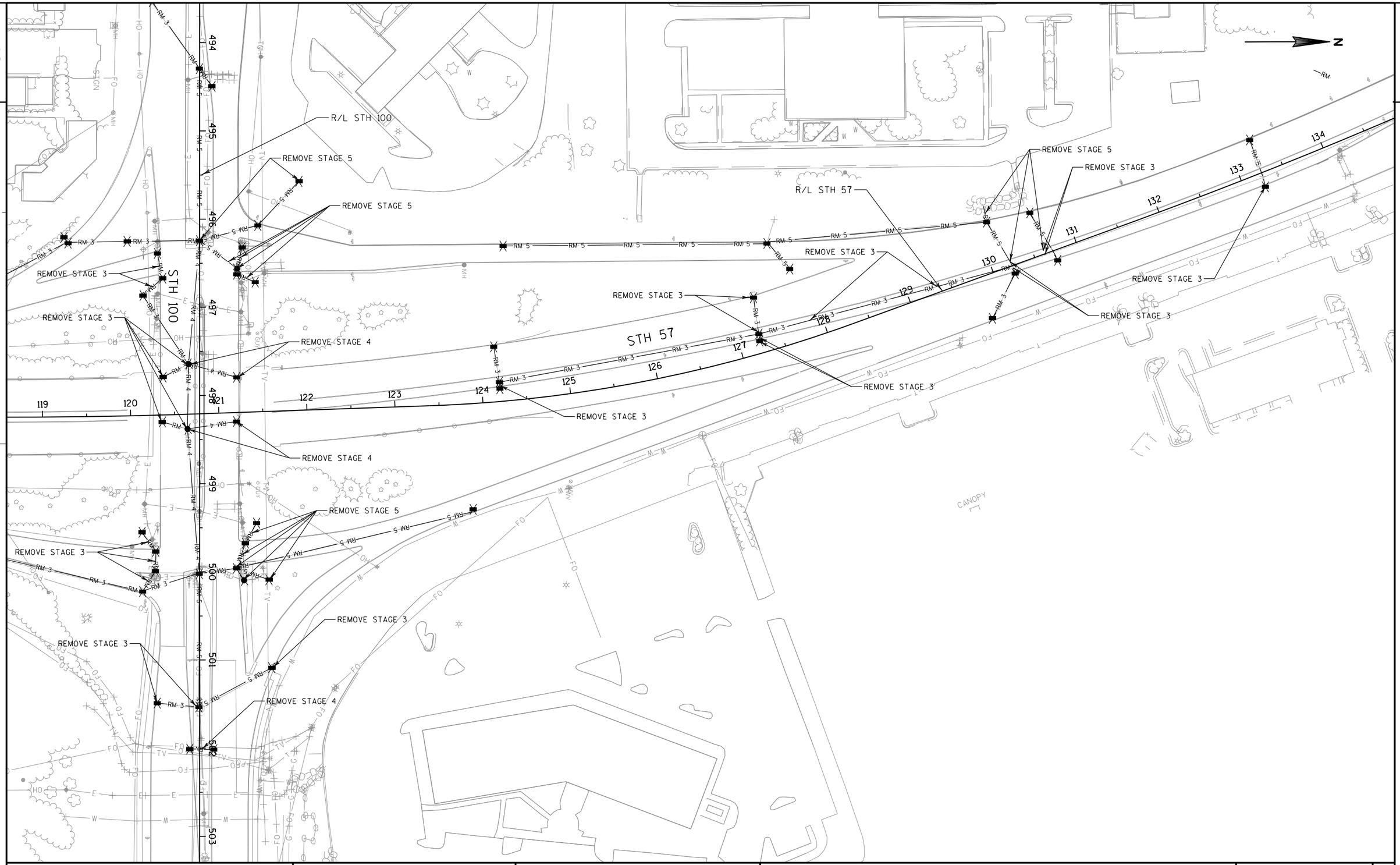
CONNECT TO EXISTING

104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119

RM 3

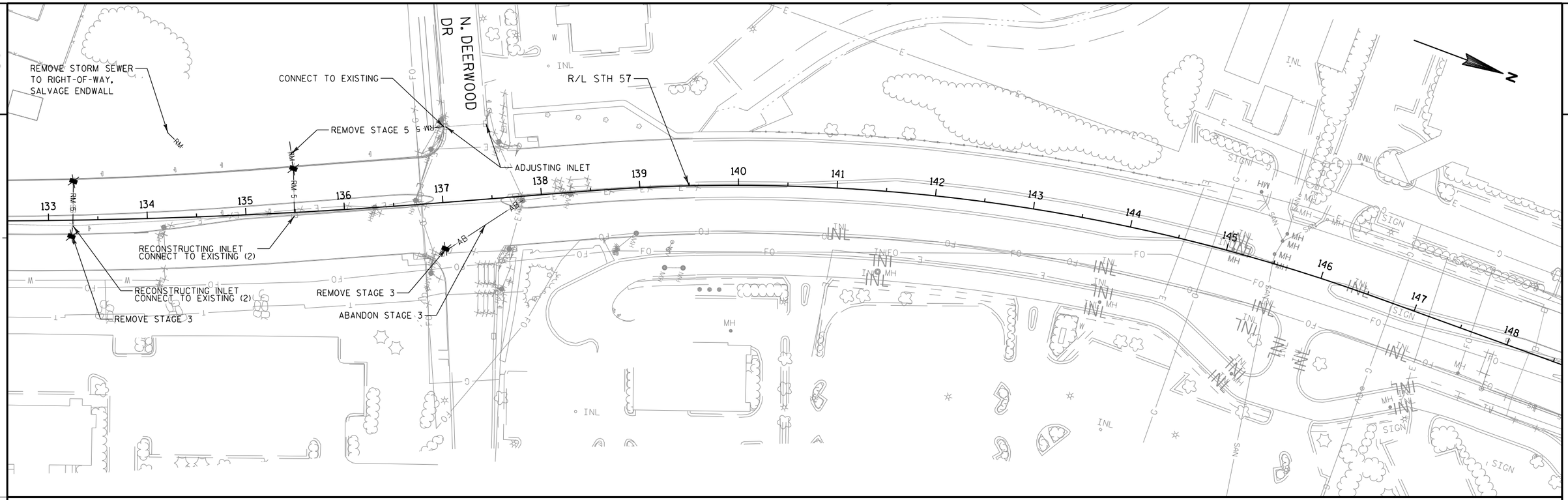
PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE/OZAUKEE	STORM SEWER REMOVALS	SHEET 172	E

FILE NAME : s:\dot\dot_se\170329-id2270-04-00_sth57\design\dgn\Plansheets\022501_SS.dgn PLOT DATE : 4/21/2021 PLOT BY : badams PLOT NAME : PLOT SCALE : 1:100



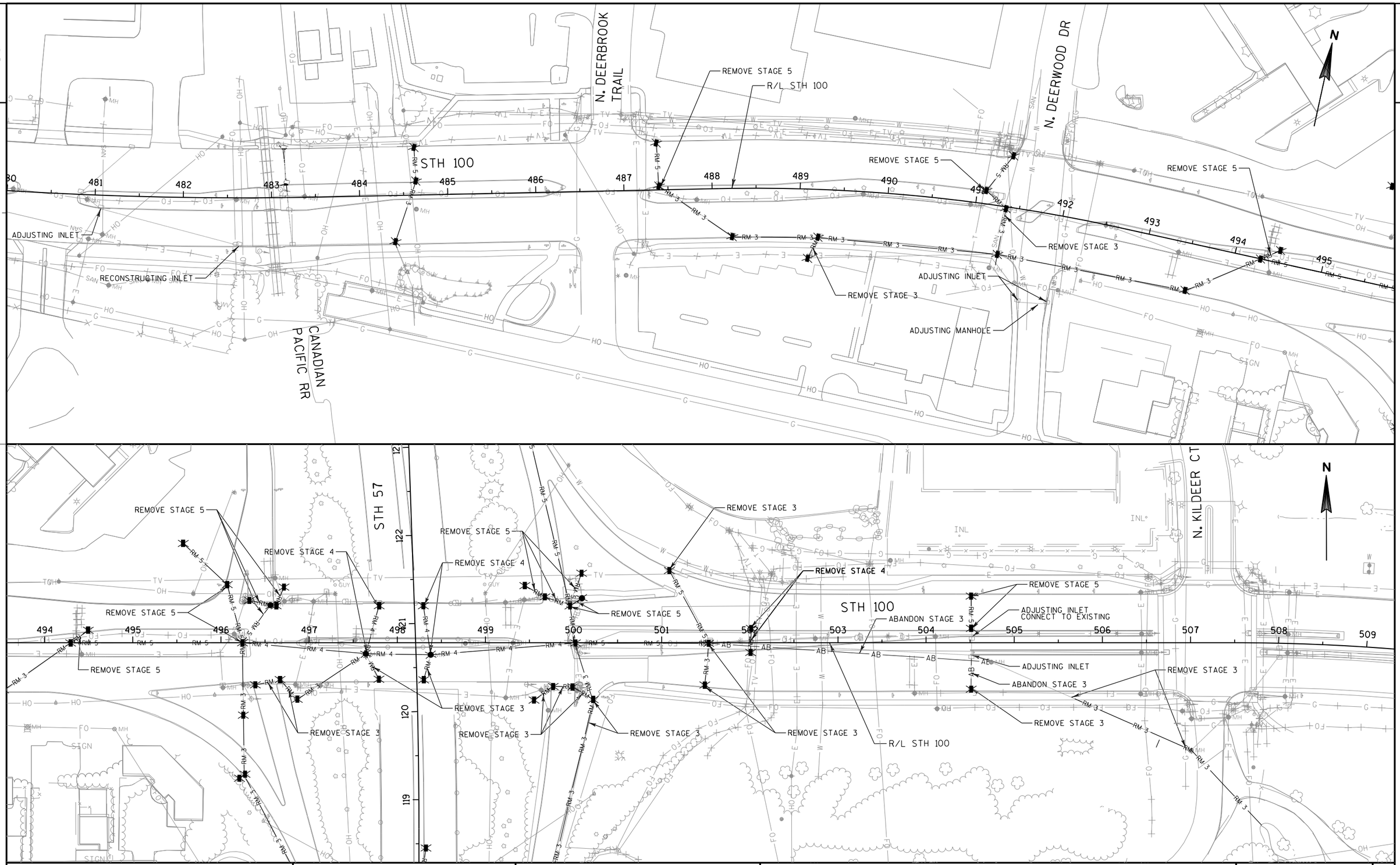
PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE/OZAUKEE	STORM SEWER REMOVALS	SHEET 173	E

FILE NAME : s:\dot\dot_se\170329-id2270-04-00_sth57\design\dgn\Plansheets\022502_SS.dgn PLOT DATE : 4/21/2021 PLOT BY : badams PLOT NAME : PLOT SCALE : 1:100



2

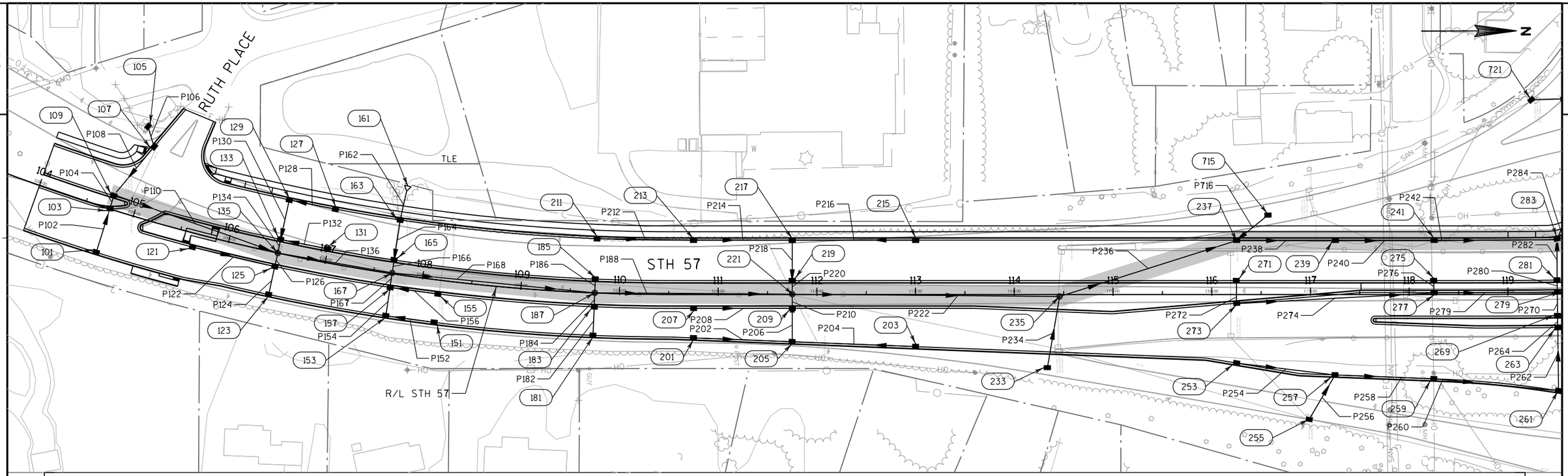
PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE/OZAUKEE	STORM SEWER REMOVALS	SHEET 174	E



PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE/OZAUKEE	STORM SEWER REMOVALS	SHEET 175	E

FILE NAME : s:\dot\dot_se\170329-id2270-04-00_sth57\design\dgn\Plansheets\022504_SS.dgn PLOT DATE : 4/21/2021 PLOT BY : badams PLOT NAME : PLOT SCALE : 1:100

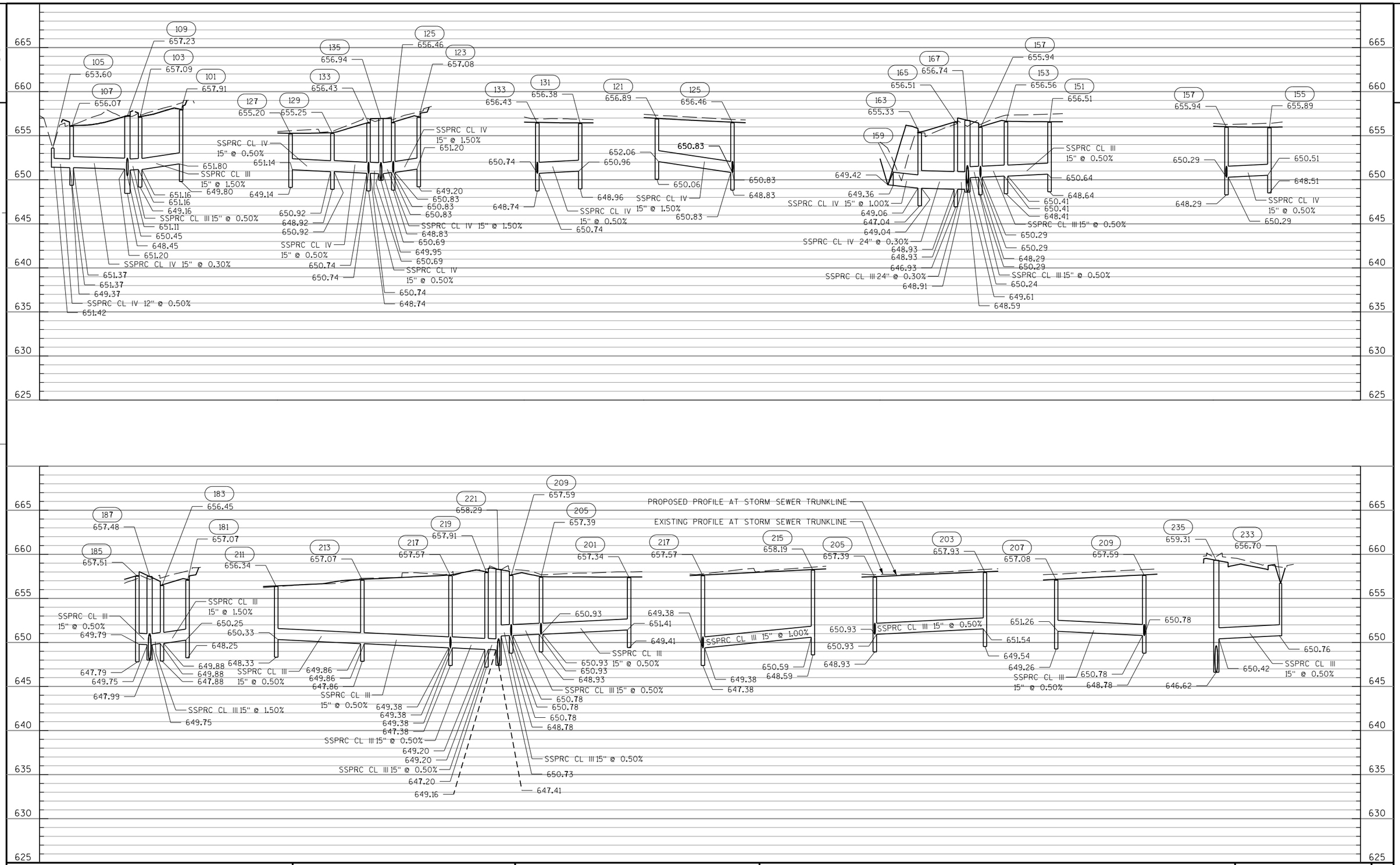
WISDOT/CADDS SHEET 41



PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE/OZAUKEE	STORM SEWER PLAN AND PROFILE - STH 57	SHEET 176	E

FILE NAME : s:\dot\dot_se\170329-id2270-04-00_sth57\design\dgn\Plansheets\022511_SS.dgn PLOT DATE : 4/21/2021 PLOT BY : badams PLOT NAME : PLOT SCALE : 1:100

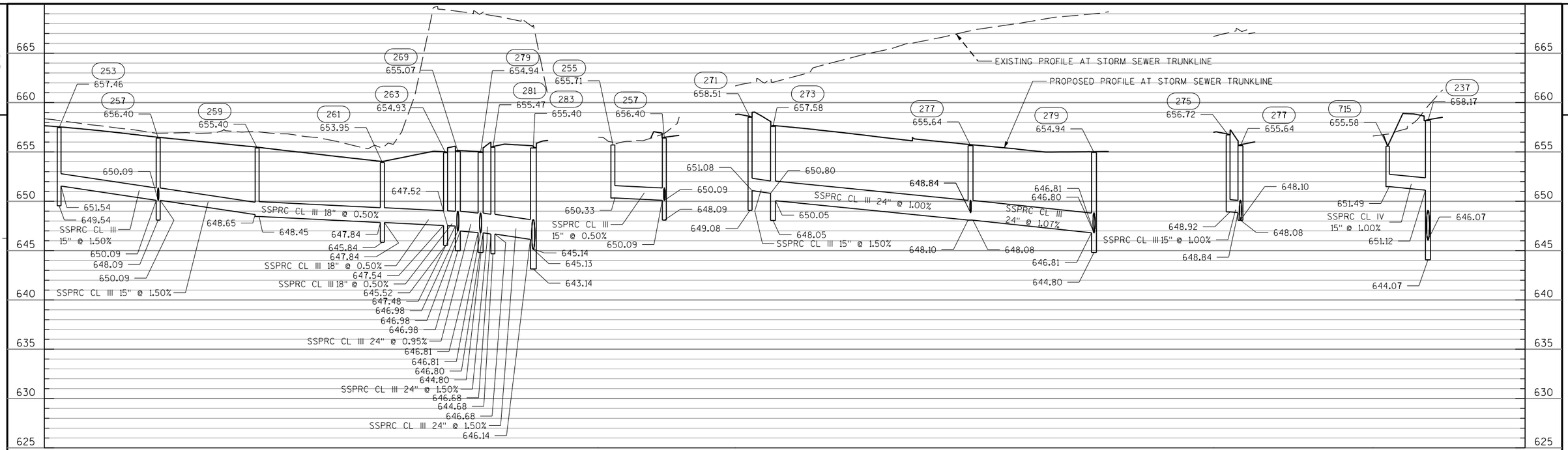
WISDOT/CADDS SHEET 41



PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE/OZAUKEE	STORM SEWER PLAN AND PROFILE	SHEET 177 E

FILE NAME : s:\dot\dot_se\170329-id2270-04-00_sth57\design\dgn\Plansheets\022511b_SS.dgn PLOT DATE : 4/21/2021 PLOT BY : badams PLOT NAME : PLOT SCALE : 1:100

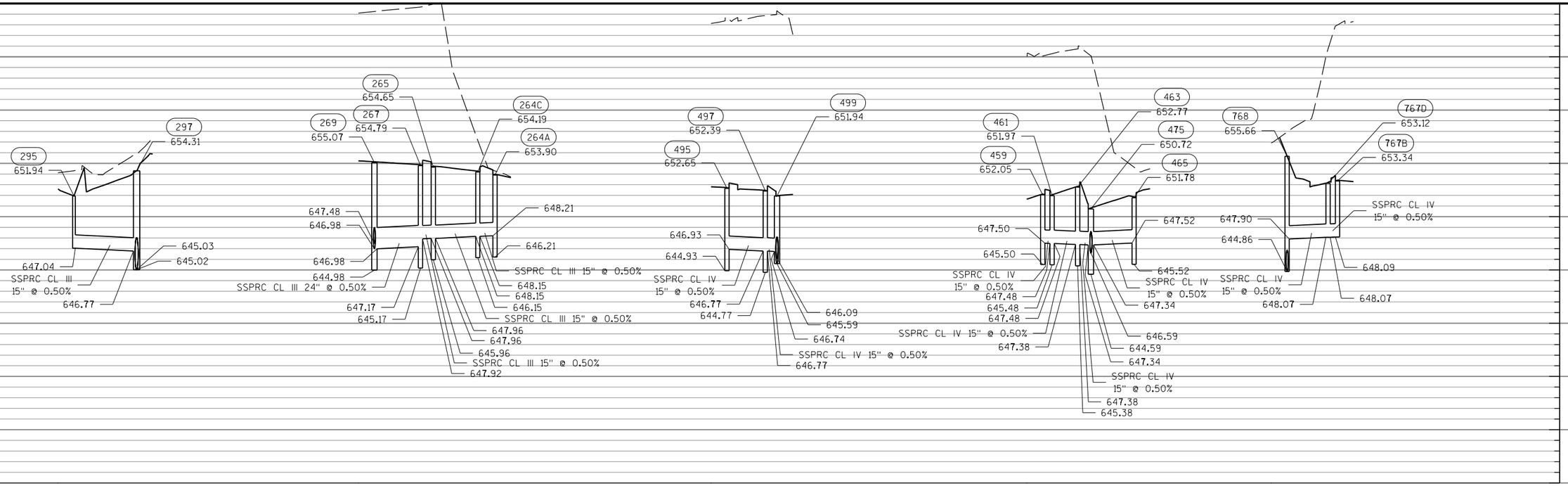
WISDOT/CADDS SHEET 41

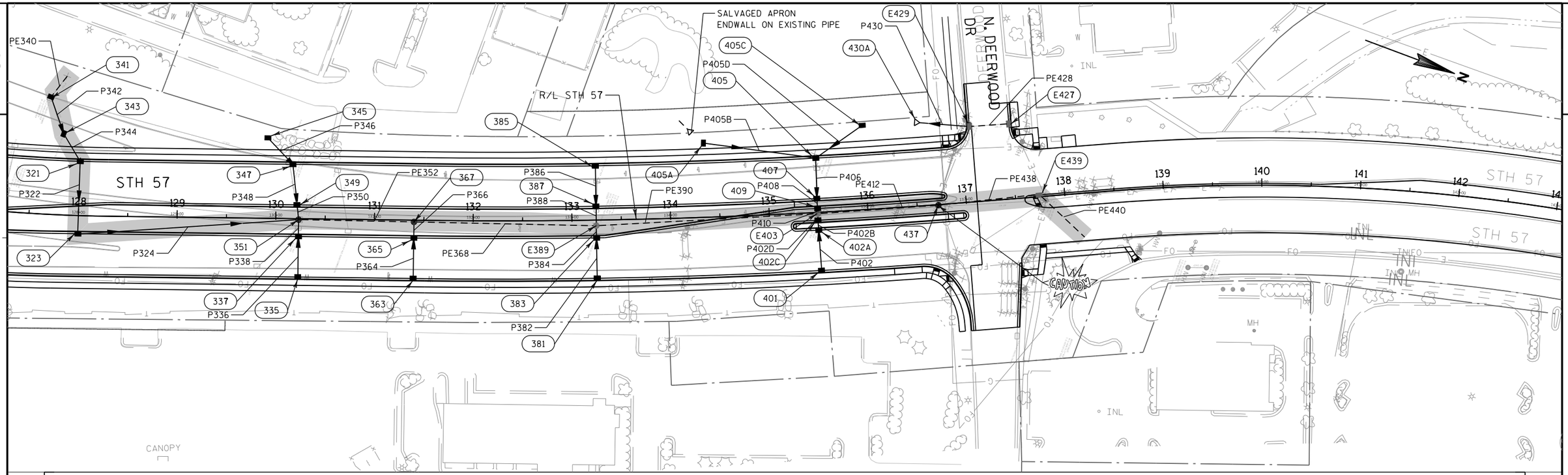


PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE/OZAUKEE	STORM SEWER PLAN AND PROFILE	SHEET 178	E

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE/OZAUKEE	STORM SEWER PLAN AND PROFILE - STH 57	SHEET 179 E

FILE NAME : s:\dot\dot_se\170329-id2270-04-00_sth57\design\dgn\Plansheets\022512_SS.dgn PLOT DATE : 4/21/2021 PLOT BY : badams PLOT NAME : PLOT SCALE : 1:100

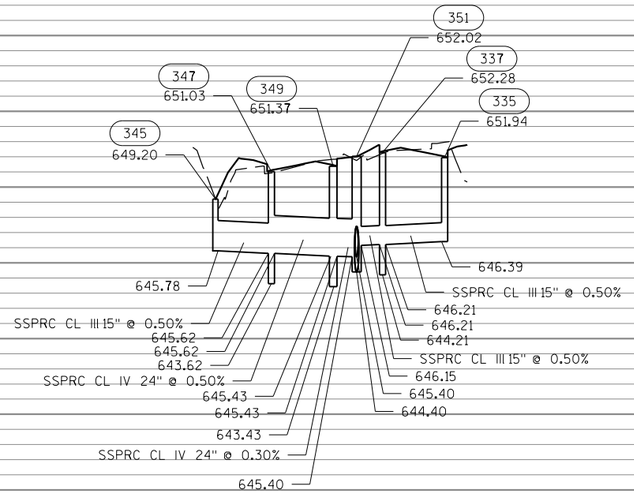

665
660
655
650
645
640
635
630
625
295
651.94
297
654.31
645.03
645.02
647.04
SSPRC CL III
15" @ 0.50%
646.77
265
654.65
267
654.79
269
655.07
264C
654.19
264A
653.90
648.21
647.48
646.98
646.98
644.98
646.21
SSPRC CL III 15" @ 0.50%
SSPRC CL III 24" @ 0.50%
648.15
648.15
646.15
647.17
645.17
SSPRC CL III 15" @ 0.50%
647.96
647.96
645.96
SSPRC CL III 15" @ 0.50%
647.92
497
652.39
499
651.94
495
652.65
646.93
644.93
SSPRC CL IV
15" @ 0.50%
646.77
644.77
646.09
645.59
646.74
SSPRC CL IV 15" @ 0.50%
646.77
461
651.97
463
652.77
459
652.05
475
650.72
465
651.78
647.52
647.50
645.50
SSPRC CL IV
15" @ 0.50%
647.48
645.48
647.48
SSPRC CL IV 15" @ 0.50%
647.38
645.52
SSPRC CL IV
15" @ 0.50%
647.34
646.59
644.59
647.34
SSPRC CL IV
15" @ 0.50%
647.38
645.38
768
655.66
767D
653.12
767B
653.34
SSPRC CL IV
15" @ 0.50%
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644.86
SSPRC CL IV
15" @ 0.50%
648.09
648.07
648.07

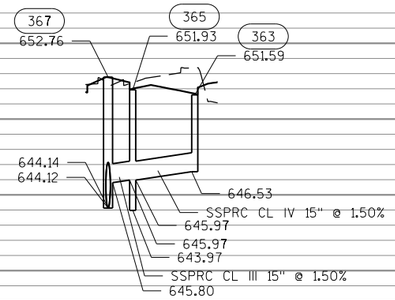


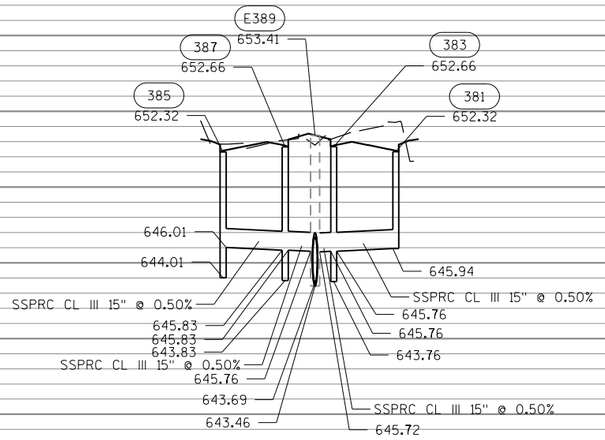
PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE/OZAUKEE	STORM SEWER PLAN AND PROFILE - STH 57	SHEET 181 E

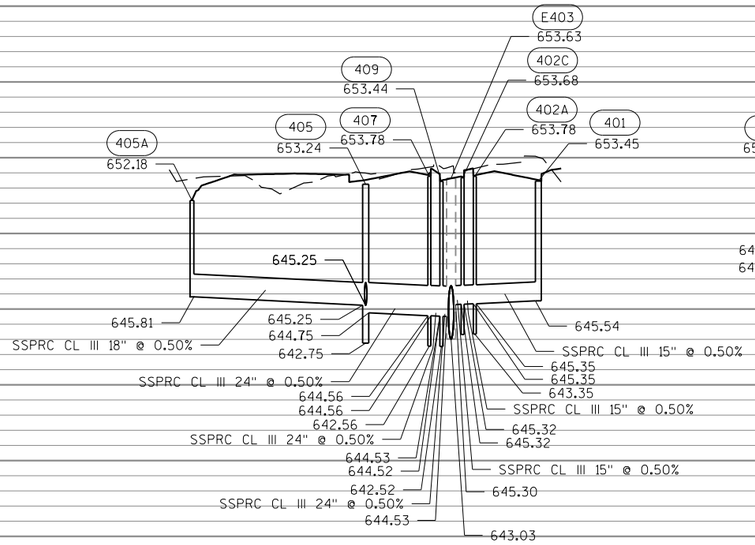
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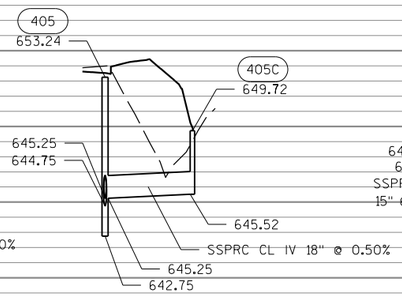
WISDOT/CADDS SHEET 41

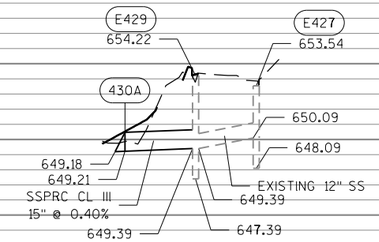




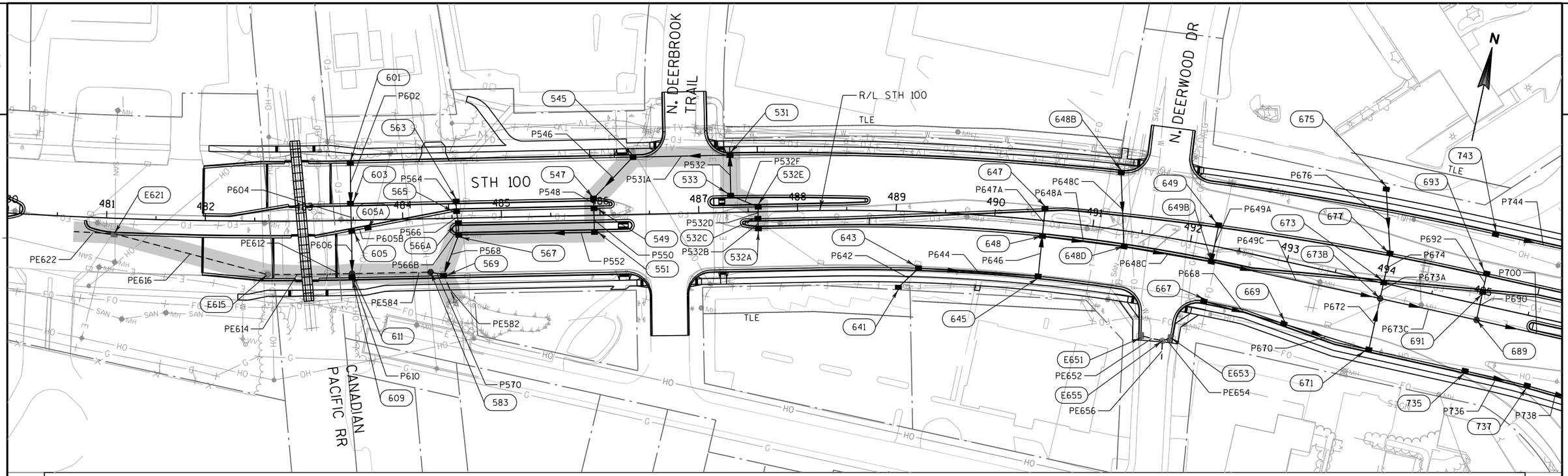


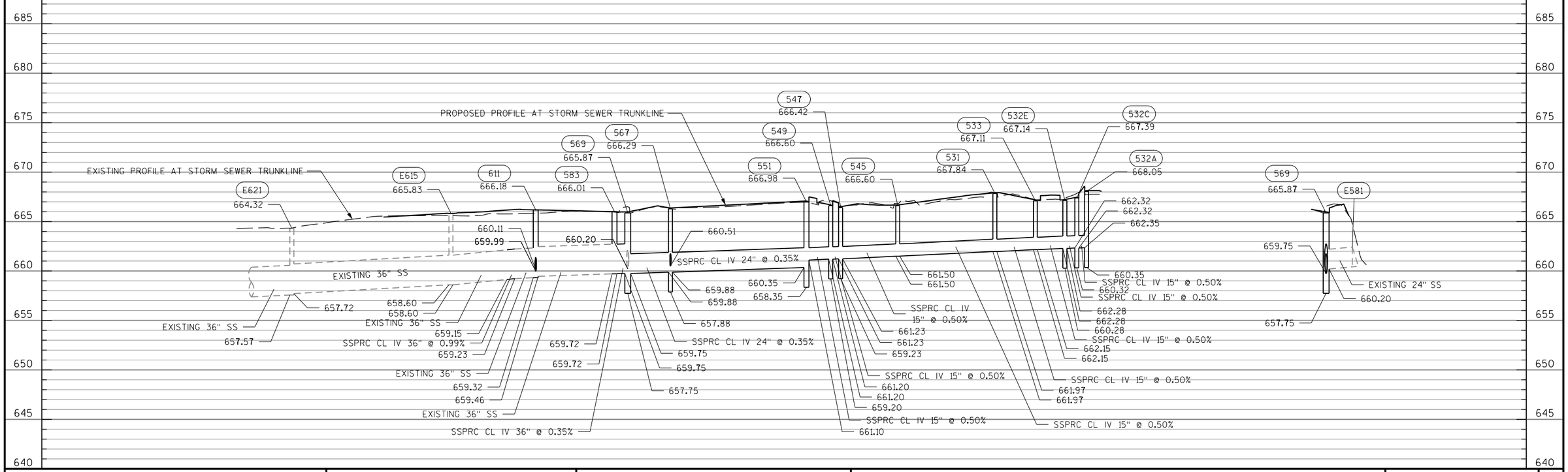




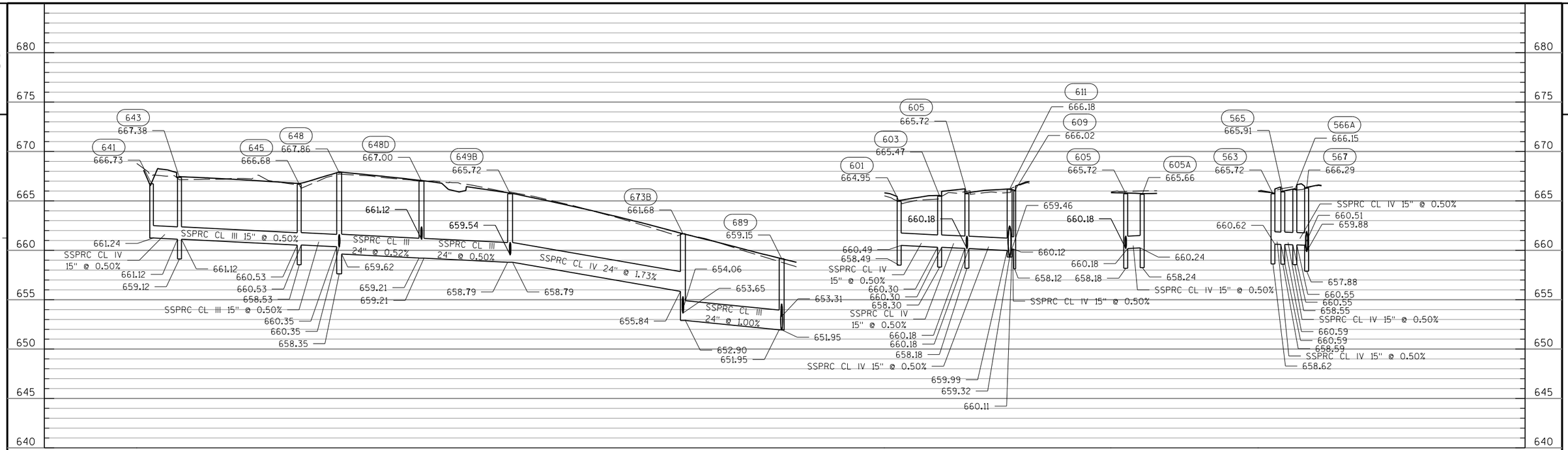


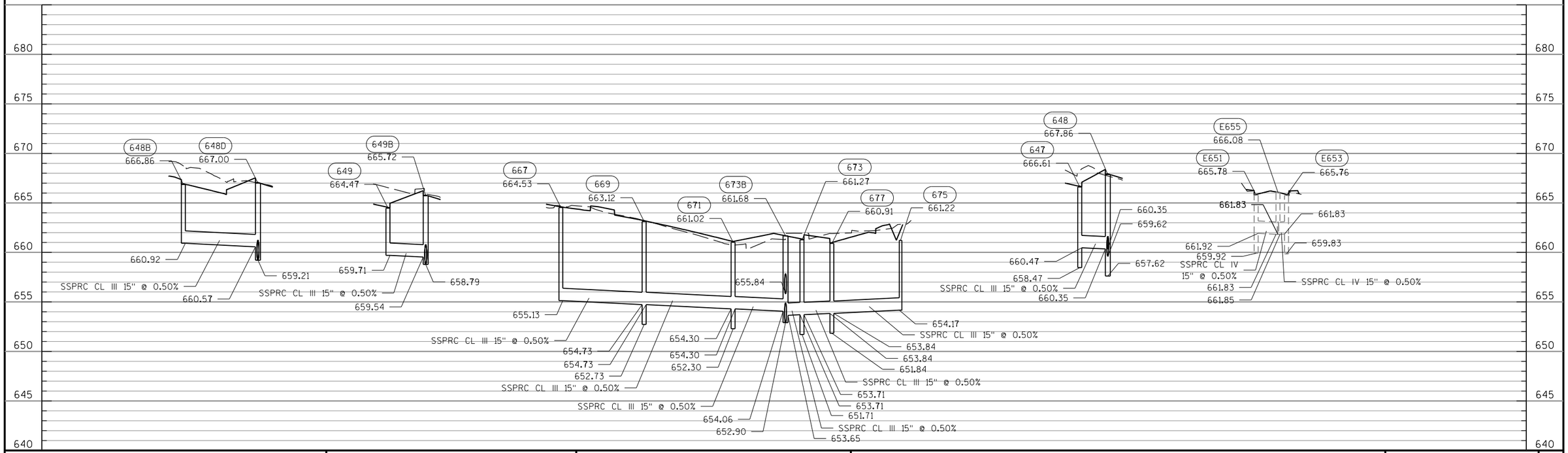
PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE/OZAUKEE	STORM SEWER PLAN AND PROFILE	SHEET 182 E



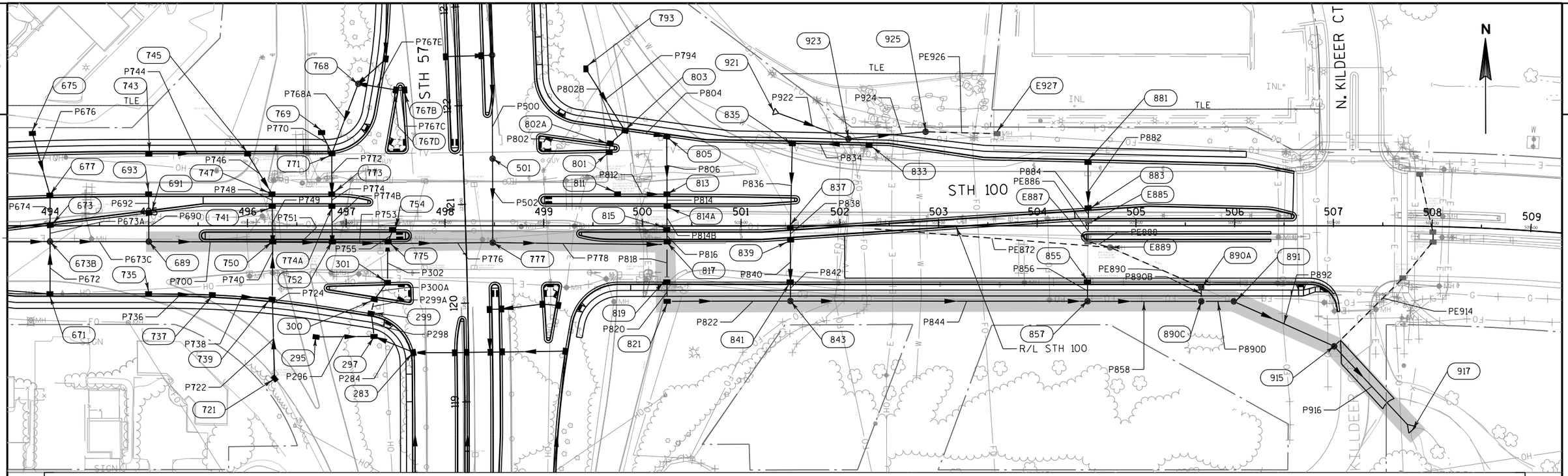


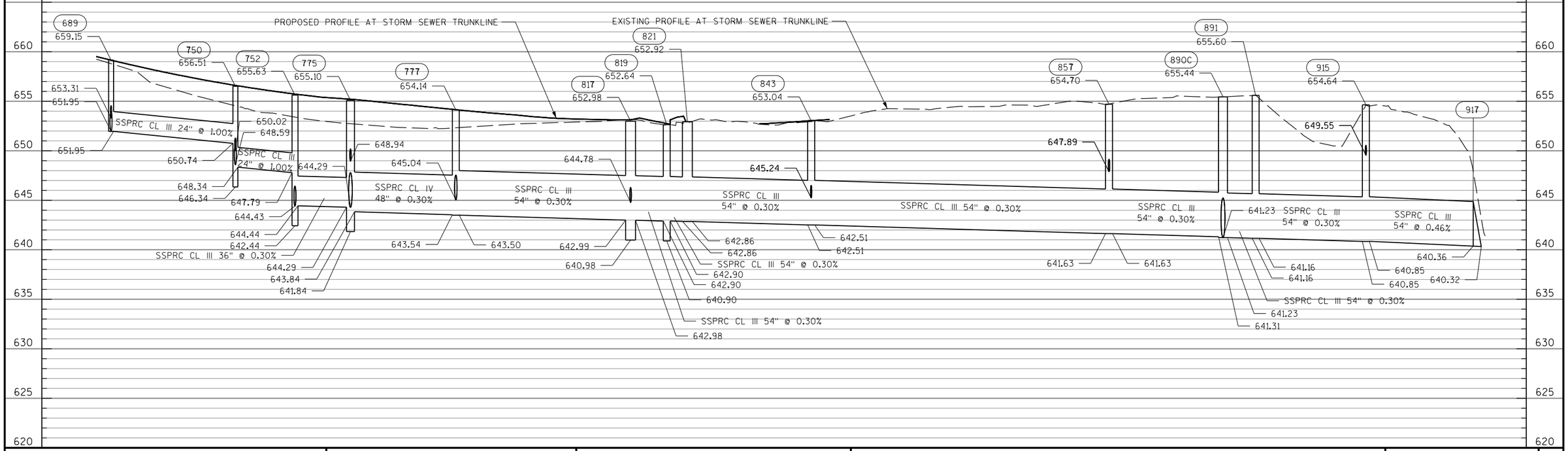
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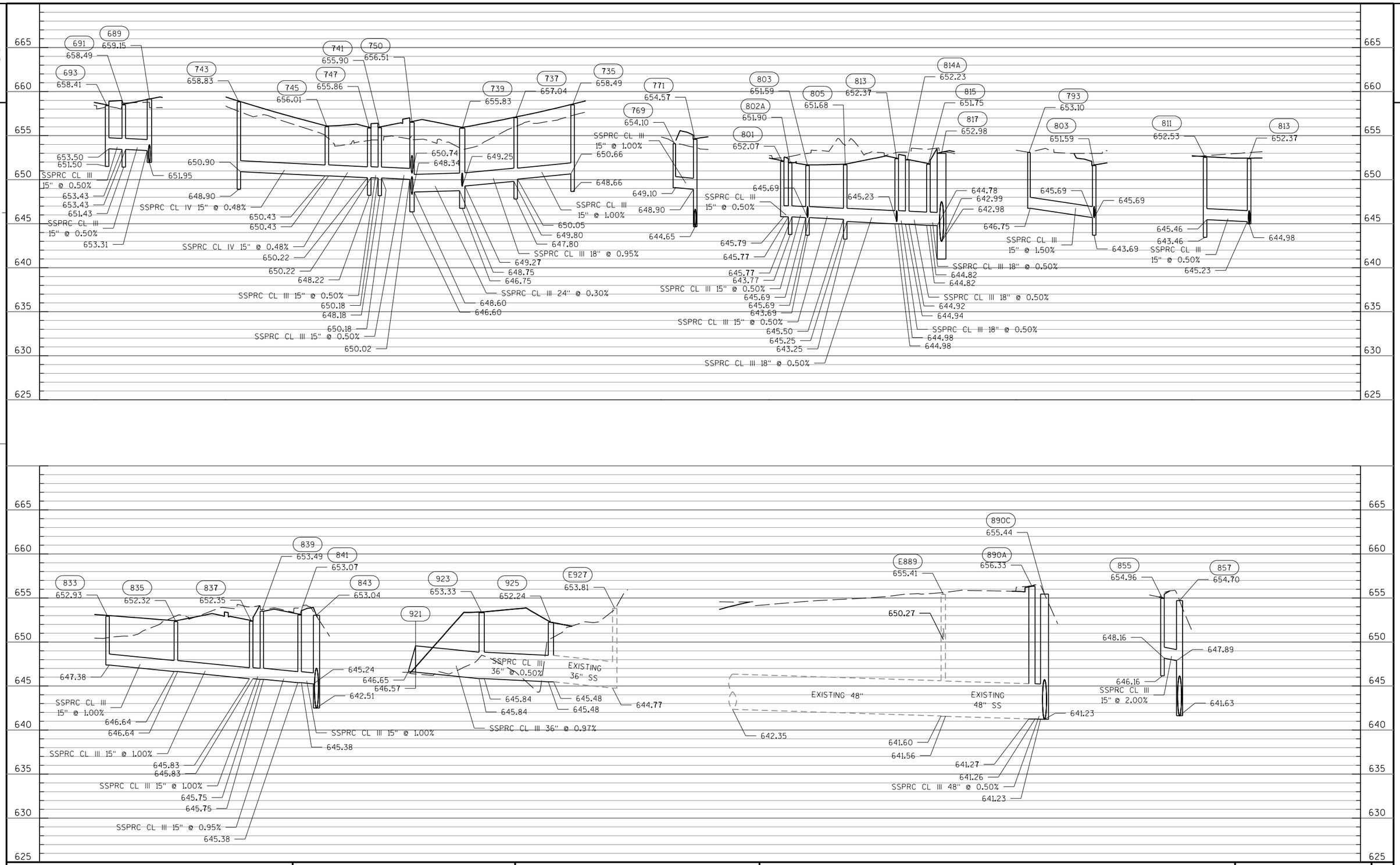


PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE/OZAUKEE	STORM SEWER PLAN AND PROFILE	SHEET 184 E

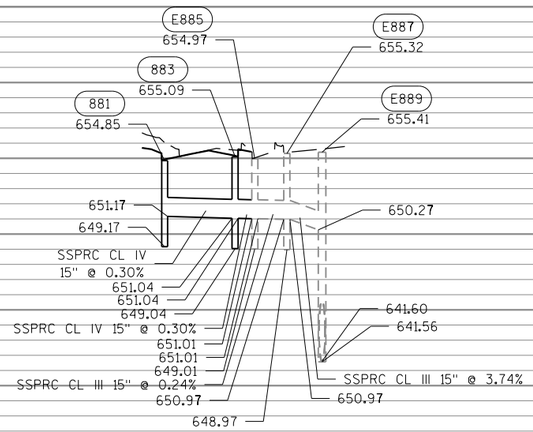


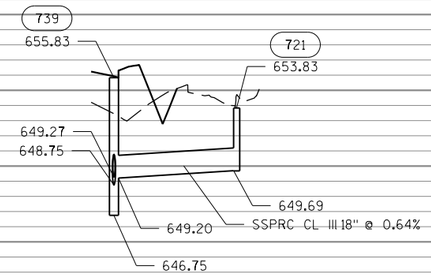


PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE/OZAUKEE	STORM SEWER PLAN AND PROFILE - STH 100	SHEET 185 E



PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE/OZAUKEE	STORM SEWER PLAN AND PROFILE	SHEET 186 E

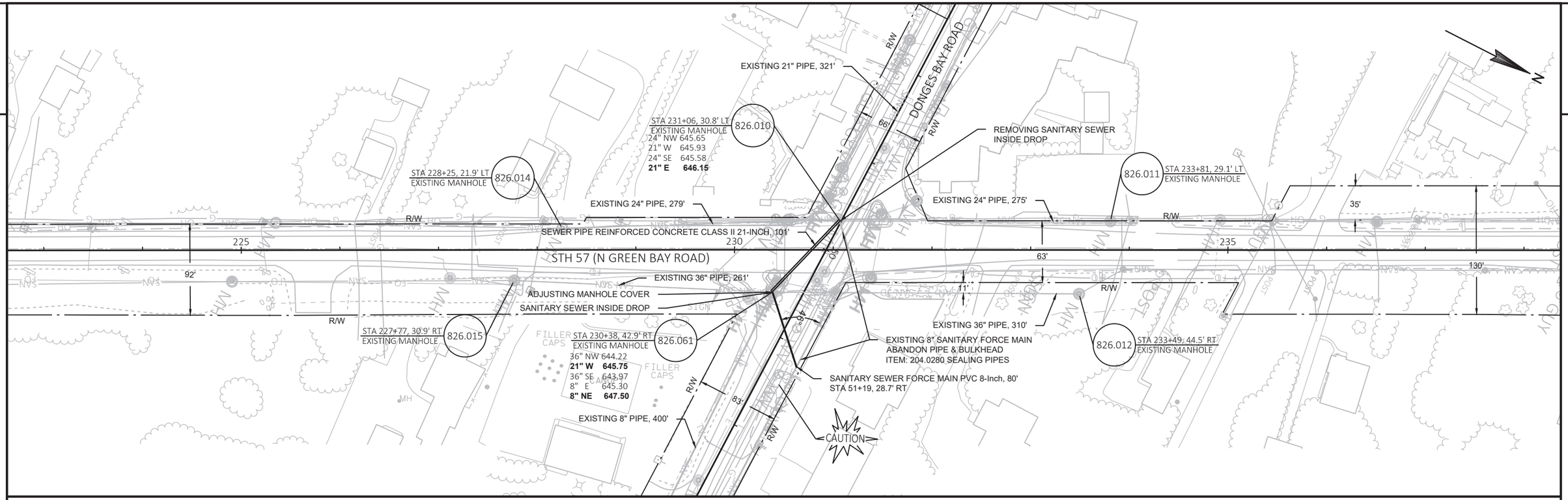


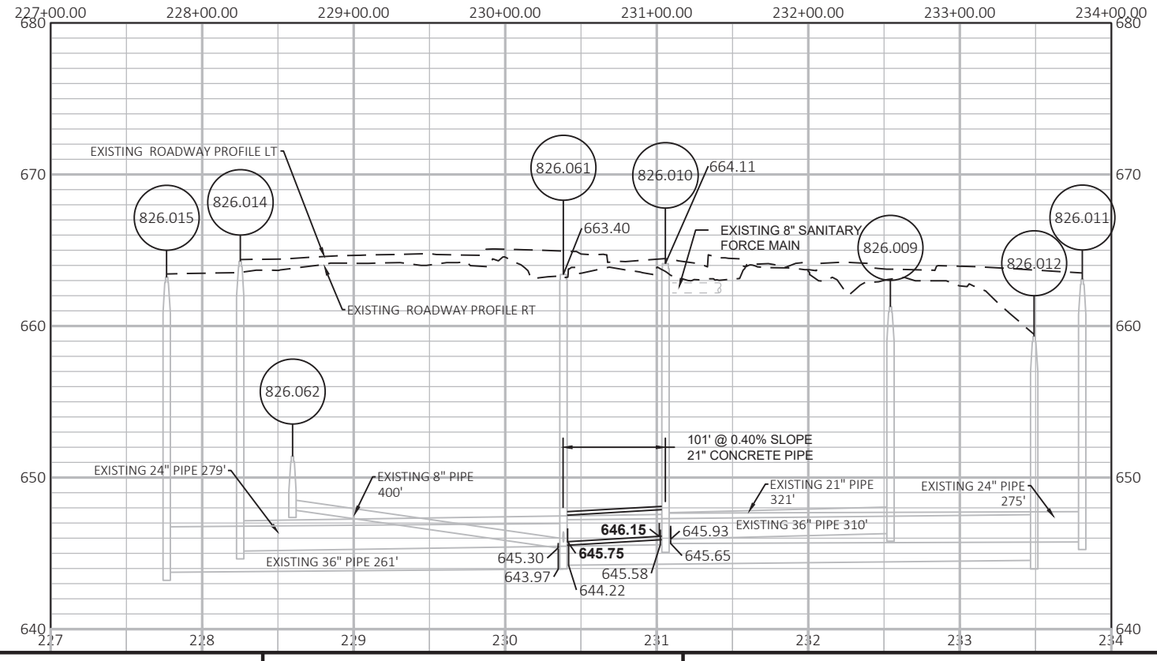


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PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE/OZAUKEE	STORM SEWER PLAN AND PROFILE	SHEET 187	E

2





Lakeside ENGINEERS

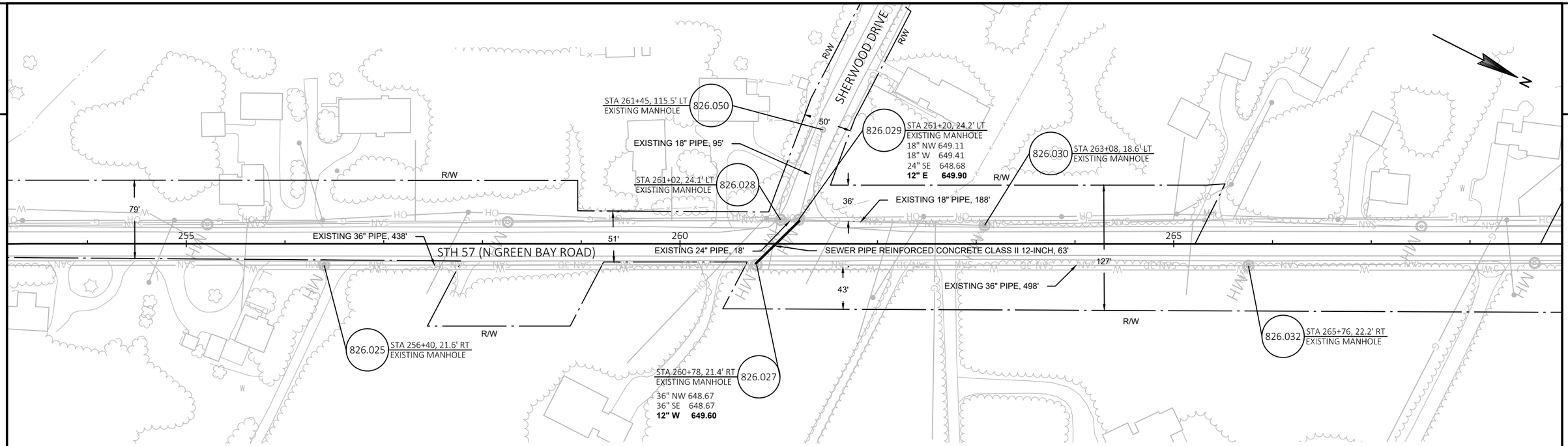
WISCONSIN
ANTHONY BUBLITZ
44355-6
MILWAUKEE, WI
PROFESSIONAL ENGINEER

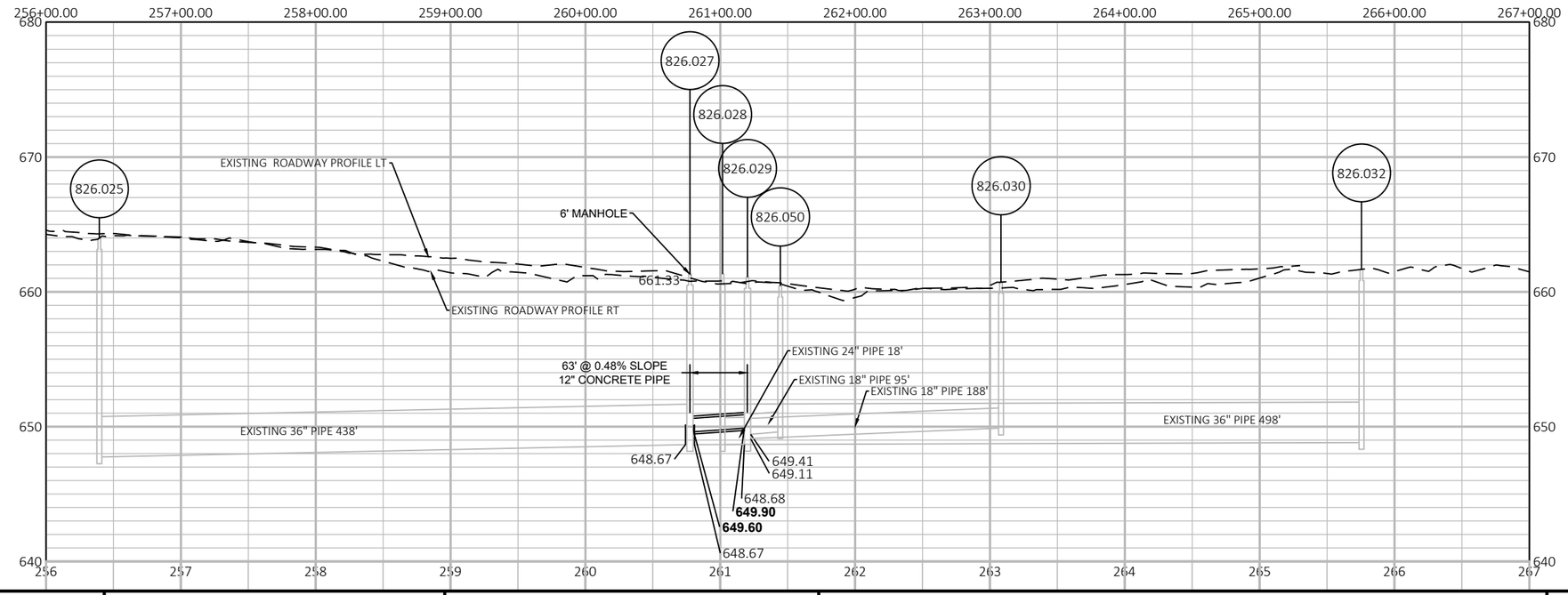
DRAWN BY: ANTHONY BUBLITZ, PE
DESIGNED BY: ANTHONY BUBLITZ, PE
CHECKED BY: JOSEPH MAAS, PE
DATE: December 14, 2020
SCALE: 1"=100'

4/29/21 (Date) (Signature)

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	SANITARY SEWER	SHEET 162	E

FILE NAME : L:\DESIGN PROJECTS\1953-I-18_CENTRAL TRUNK EQUALIZER\10. ROADWAY\CADD\SHEETSPLAN\SANITARY SEWER DESIGN.DWG
LAYOUT NAME - Sanitary Sewer
PLOT DATE : 12/14/2020 3:55 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:100 FT





PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	SANITARY SEWER	SHEET 163

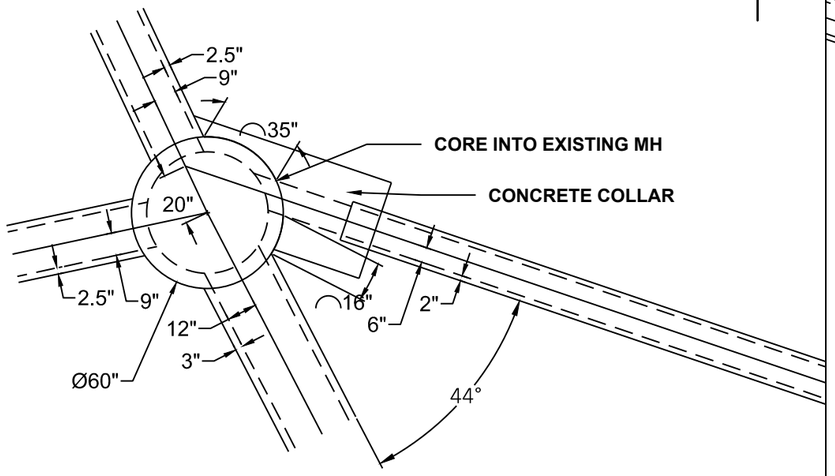
E

FILE NAME : L:\DESIGN PROJECTS\1953-I-18_CENTRAL TRUNK EQUALIZER\10. ROADWAY\CADD\SHEETSPLAN\SANITARY SEWER DESIGN.DWG
LAYOUT NAME - Sanitary Sewer 3

PLOT DATE : 12/14/2020 3:55 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:100 FT

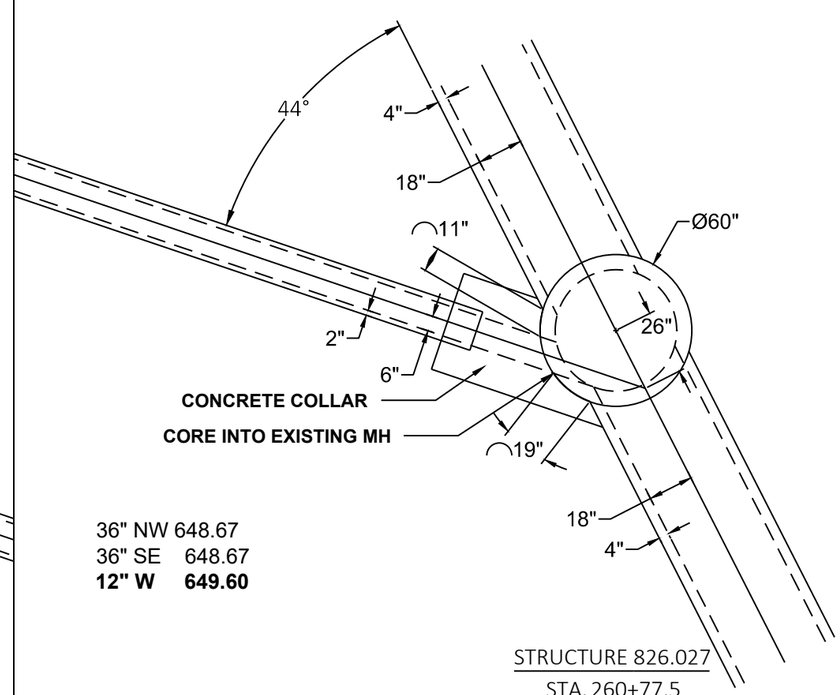
2

Notes: Proposed Items in **BOLD**
Exterior Structure Dimensions Shown



18" NW 649.11
18" W 649.41
24" SE 648.68
12" E 649.90

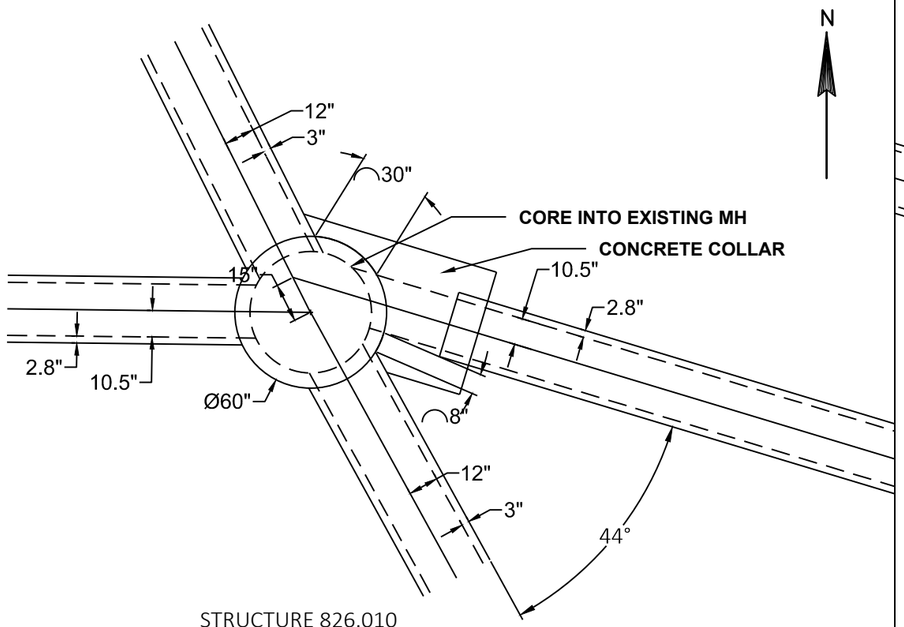
STRUCTURE 826.029
STA. 261+20.2
24.2' LT



36" NW 648.67
36" SE 648.67
12" W 649.60

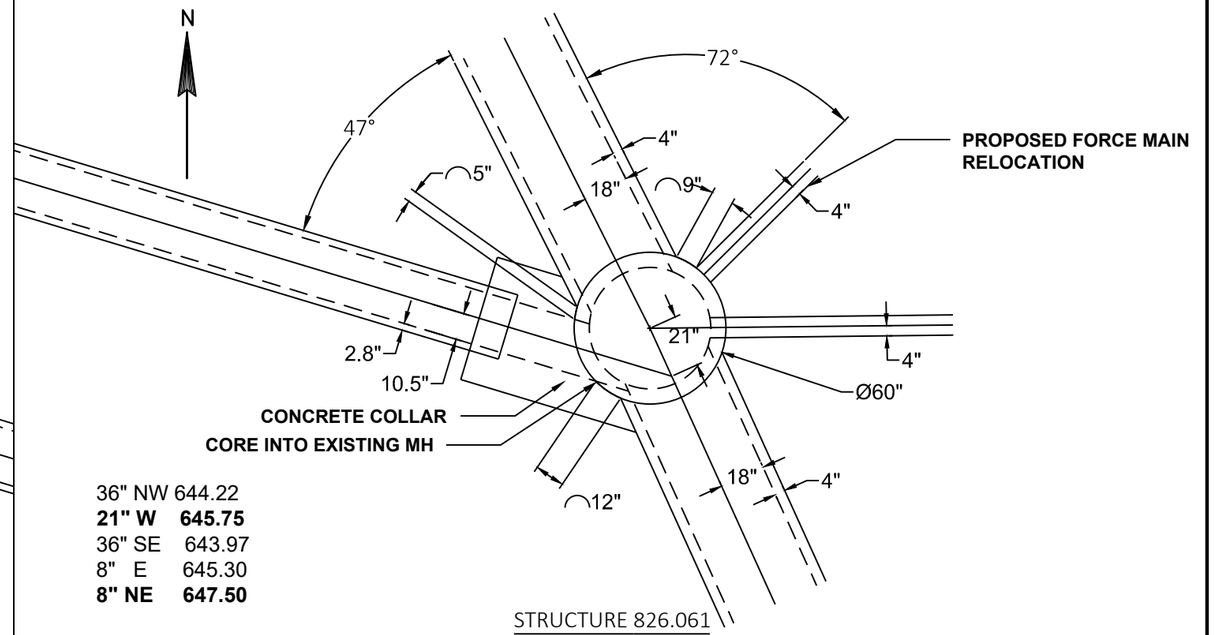
STRUCTURE 826.027
STA. 260+77.5
21.4' RT

2



24" NW 645.65
21" W 645.93
24" SE 645.58
21" E 646.15

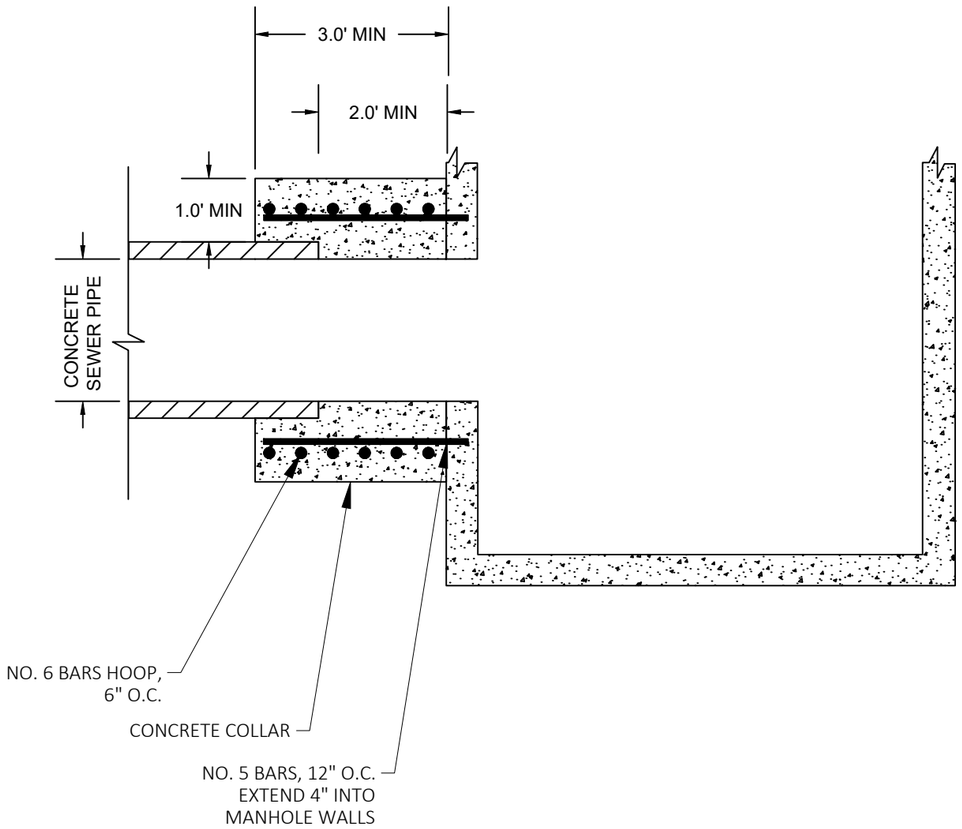
STRUCTURE 826.010
STA. 231+05.8
30.8' LT



36" NW 644.22
21" W 645.75
36" SE 643.97
8" E 645.30
8" NE 647.50

STRUCTURE 826.061
STA. 230+38.4
42.9' RT

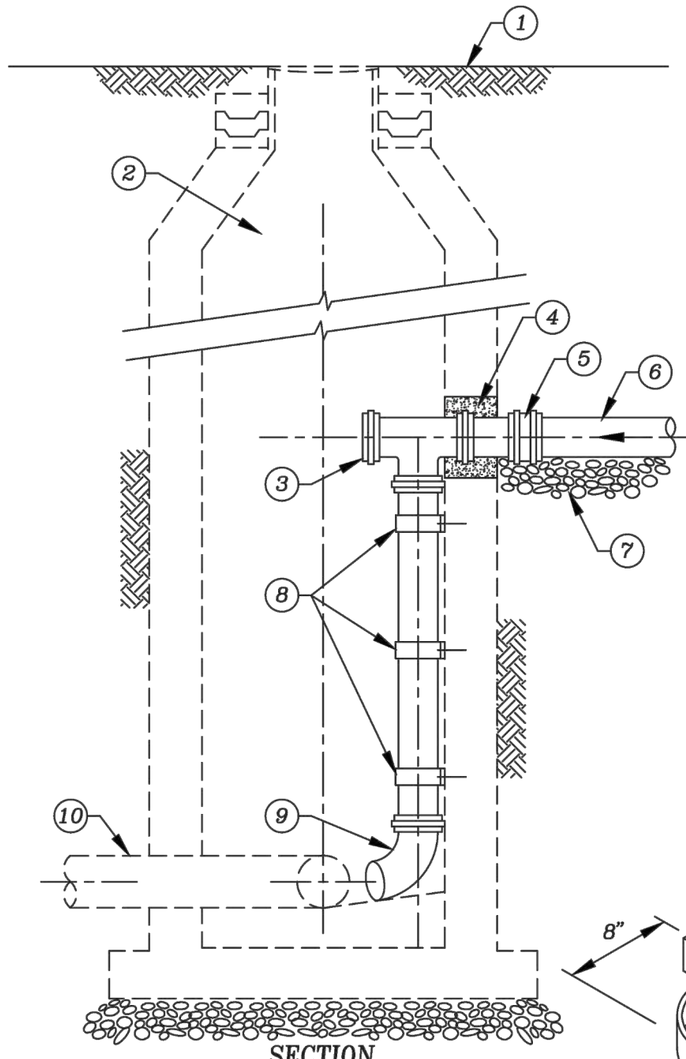
PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKE & OZAUKEE	SANITARY SEWER MANHOLE DETAIL	SHEET 164 190	E



SANITARY SEWER REINFORCED CONCRETE COLLAR DETAIL

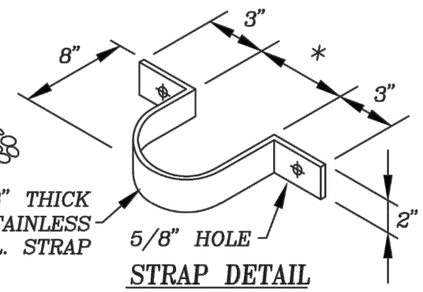
INSIDE MANHOLE DROP CONNECTION

N.T.S.



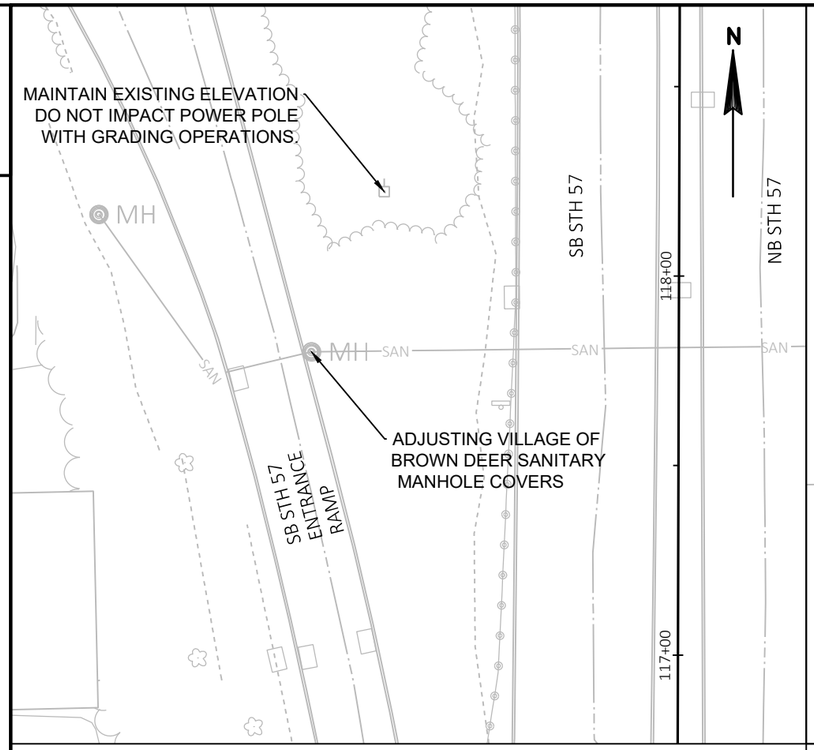
1. EXISTING GRADE
2. EXISTING MANHOLE
3. P.V.C. TEE with cap
4. CORE DRILL MANHOLE AND FILL VOID WITH NON–SHRINK GROUT
5. COMPRESSION COUPLING
6. PVC SEWER
7. CRUSHED STONE BEDDING
8. STRAP AT TEE ELBOW AND ON 4' CENTERS WITH 1/2"ø EXPANSION TYPE S.S. CINCH BOLTS & S.S. ANCHORS
9. ∗ 90° BEND SET ELEVATION ABOVE BENCH TO AVOID OBSTRUCTION OF FLOW LINE
10. ∗ EXIST. SEWER

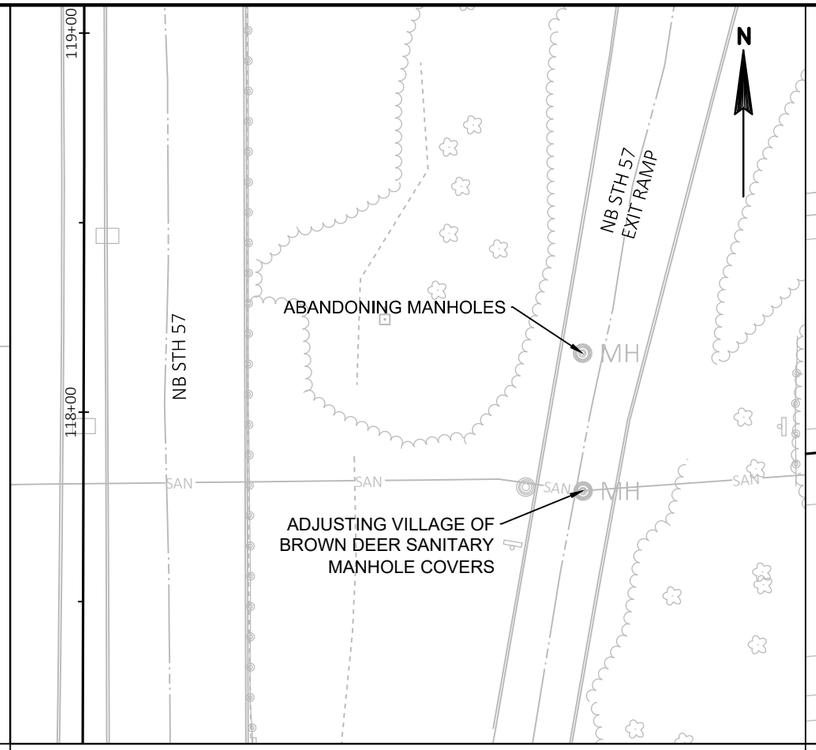
SECTION

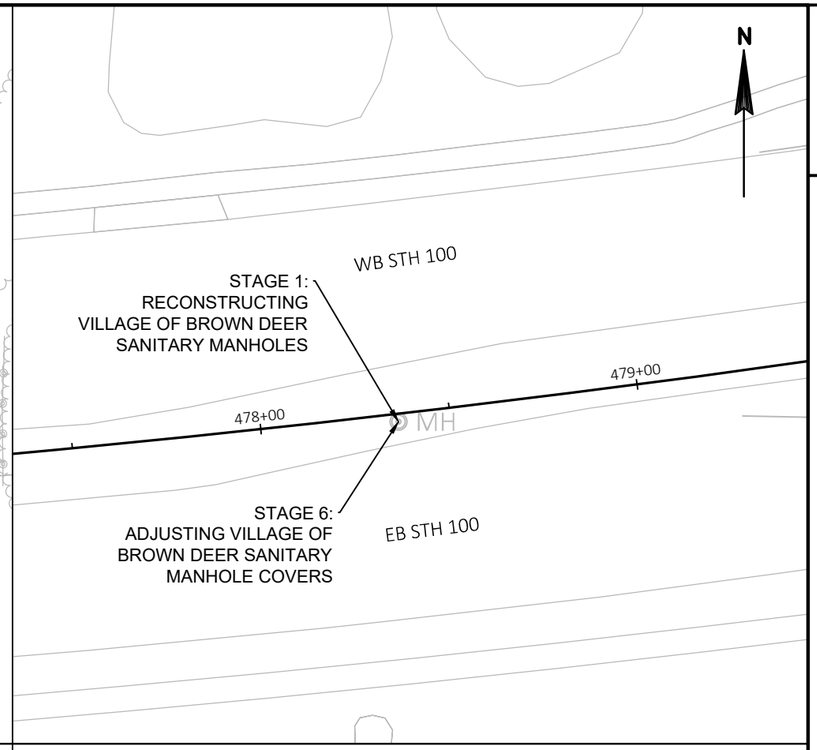


STRAP DETAIL

NOTE:
THE CONSTRUCTION OF AN INSIDE DROP MANHOLE IS ONLY PERMITTED WITH PRIOR APPROVAL OF THE AUTHORITY.







2

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	UTILITY PLAN	SHEET 192	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\023001_UP.DWG
LAYOUT NAME - 023001
PLOT DATE : 4/1/2021 10:22 AM
PLOT BY : TONY BUBLITZ
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

N ARBON DRIVE

W BROWN DEER ROAD

STA 478+80.62
15.6' LT

STA 480+11.51

STEEL EDGING MATERIAL

(3) ARTISTIC PANELS

STA 484+46.61
14.5' LT

NO MOW FESCUE SEED

STA 483+64.73
10.7' LT

STA 481+97.67
4.5' LT

PLANTER 4

STA 477+06.05
7.0' LT

PLANTER 1

LAWN SOD

STA 480+80.32

PLANTER 3

PLANTER 2

STA 478+80.80
3.2' RT

NO MOW FESCUE SEED

STA 476+31.67

PLANTER 1

R/L STH 100

STA 483+63.96
5.4' RT

STA 477+05.38
12.5' RT

STA 481+97.67
14.5' RT

STEEL EDGING MATERIAL

STEEL EDGING MATERIAL

473+00 474+00 475+00 476+00 478+00 479+00 480+00 481+00 482+00 483+00 484+00

N DEERBROOK TRAIL

STA 487+07.56
83.0' LT

STA 487+37.61
58.0' LT

STA 489+65.83
1.0' LT

STA 486+67.56
83.0' LT

STA 491+94.65
2.3' LT

STEEL EDGING MATERIAL

PLANTER 8

STA 494+58.49
29.5' LT

STA 495+55.04
29.5' LT

W BROWN DEER ROAD

STA 490+72.00

STEEL EDGING MATERIAL

STA 486+10.47
58.0' LT

R/L STH 100

PLANTER 7

NO MOW FESCUE SEED

PLANTER 6

NO MOW FESCUE SEED

NO MOW FESCUE SEED

STA 494+60.37
10.7' RT

STA 489+66.98
13.5' RT

PLANTER 5

487+00 488+00 489+00 490+00 491+00 492+00 493+00 494+00 495+00

VILLAGE WAYFINDING SIGN WITH BREAK AWAY FOUNDATIONS

N DEERWOOD DRIVE

STA 487+37.54
58.0' RT

STA 486+86.49
83.6' RT

STA 486+10.47
58.0' RT

STA 486+50.50
83.6' RT

NOTE: ALL SCOFIELD PLUM CHESTNUT CONCRETE PAVEMENT TO BE 10' WIDE

(SCOFIELD RUST FIELDS) CONCRETE PAVEMENT 9-INCH

(SCOFIELD PLUM CHESTNUT) CONCRETE PAVEMENT 9-INCH

(SCOFIELD SCHOONER BEIGE) CONCRETE SIDEWALK 5-INCH

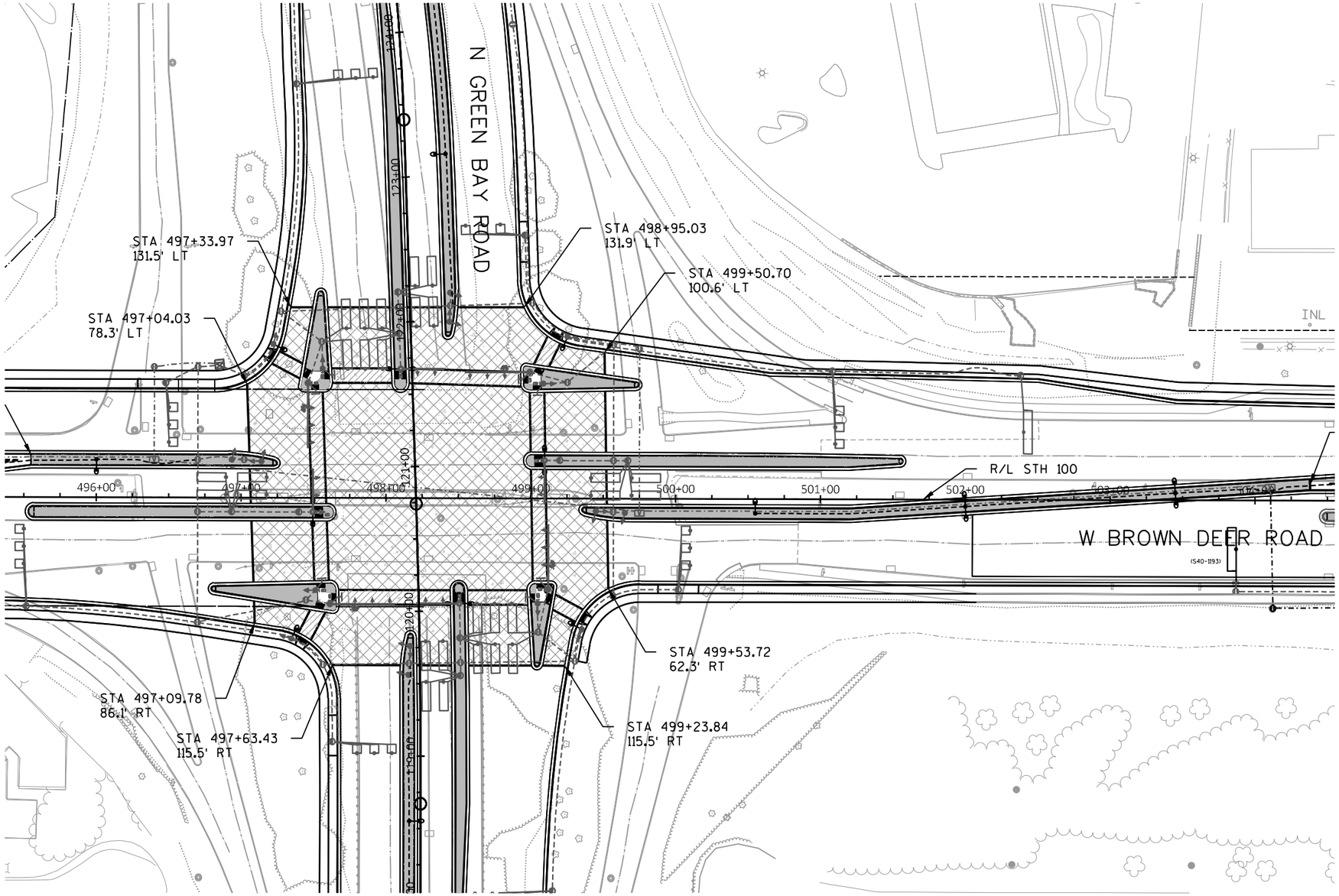
NORTH

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE/OZAUKEE	SITE LANDSCAPE PLAN	SHEET E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\Design\DGN\References
LAYOUT NAME - L101 - SITE LANDSCAPE PLAN

PLOT DATE : LANDSCAPE PLANS PLOT BY : KEVIN BYRNE PLOT NAME : PLOT SCALE : 1 IN:80 FT

2



NOTE: ALL SCOFIELD PLUM CHESTNUT CONCRETE PAVEMENT TO BE 10' WIDE

(SCOFIELD RUST FIELDS)
CONCRETE PAVEMENT
9–INCH

(SCOFIELD PLUM CHESTNUT)
CONCRETE PAVEMENT
9–INCH

(SCOFIELD SCHOONER BEIGE)
CONCRETE SIDEWALK
5–INCH

NORTH

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE/OZAUKEE	SITE LANDSCAPE PLAN	SHEET E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\Design\DGN\References
LAYOUT NAME - L102 - SITE LANDSCAPE PLAN

PLOT DATE : LANDSCAPE PLANS PLOT BY : KEVIN BYRNE PLOT NAME : PLOT SCALE : 1 IN:80 FT

2

2

N KILDEER COURT

INL

INL

W

STA 504+37.94
PLANTER 9

100

503+00

504+00

505+00

506+00

507+00

W BROWN DEER ROAD

(S40-1193)

R/L STH 100

509+00

510+00

W BROWN DEER ROAD

STEEL EDGING MATERIAL

STA 510+44.44

PLANTER 15

REMOVE, STOCKPILE, AND REINSTALL MUNICIPAL MONUMENT SIGN

PLANTER 17

STA 512+93.00

PLANTER 16

512+00

513+00

514+00

515+00

PLANTER 10

PLANTER 14

PLANTER 11

PLANTER 12

(4) ARTISTIC PANELS

NO MOW FESCUE SEED

NO MOW FESCUE SEED

STEEL EDGING MATERIAL

STA 511+63.25
81.25' RT

STEEL EDGING MATERIAL

PLANTER 13

MASONRY PILLAR AND WALL

STA 512+52.95
83.71' RT

STA 513+26.00
74.8' RT

MILWAUKEE R.

1H

(SCOFIELD RUST FIELDS)
CONCRETE PAVEMENT
9-INCH

(SCOFIELD PLUM CHESTNUT)
CONCRETE PAVEMENT
9-INCH

(SCOFIELD SCHOONER BEIGE)
CONCRETE SIDEWALK
5-INCH

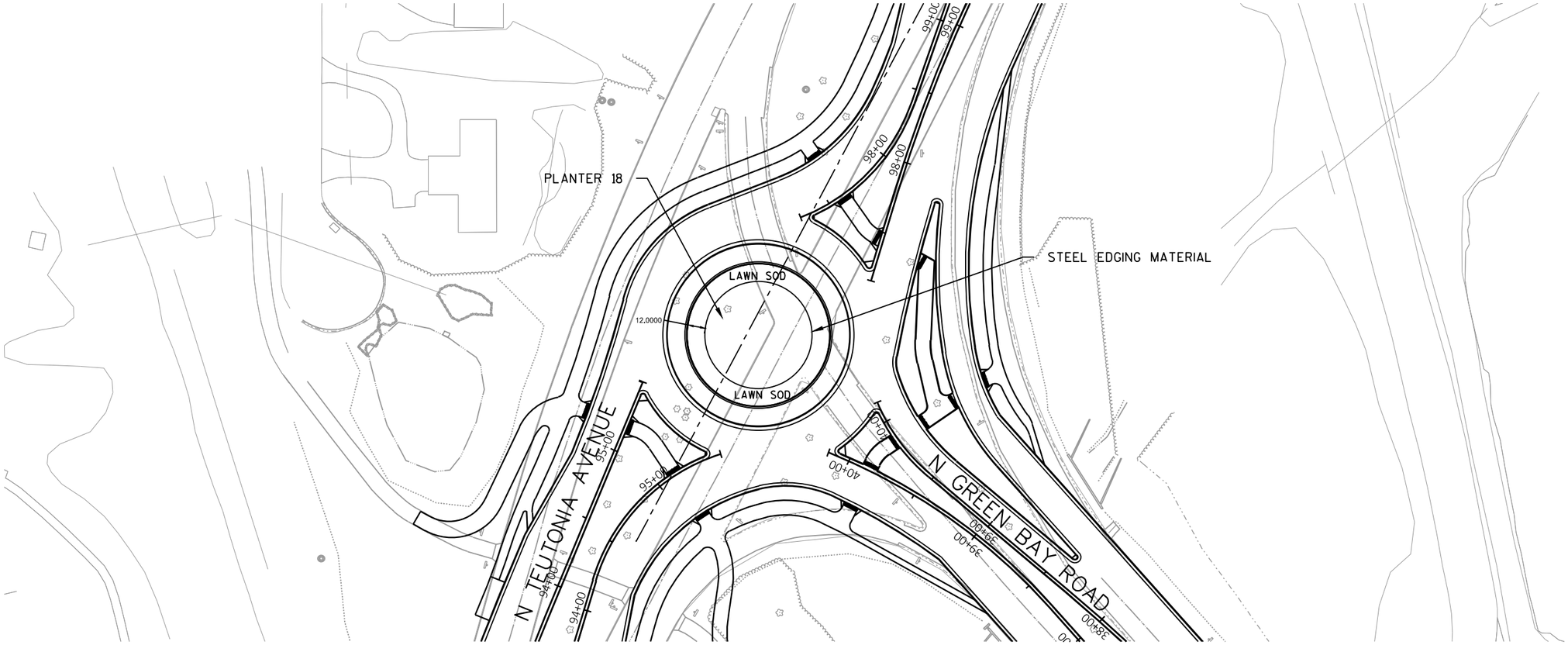
NORTH

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE/OZAUKEE	SITE LANDSCAPE PLAN	SHEET	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\Design\DGN\References
LAYOUT NAME - L103 - SITE LANDSCAPE PLAN

PLOT DATE : LANDSCAPE PLANS PLOT BY : KEVIN BYRNE PLOT NAME : PLOT SCALE : 1 IN:80 FT

2

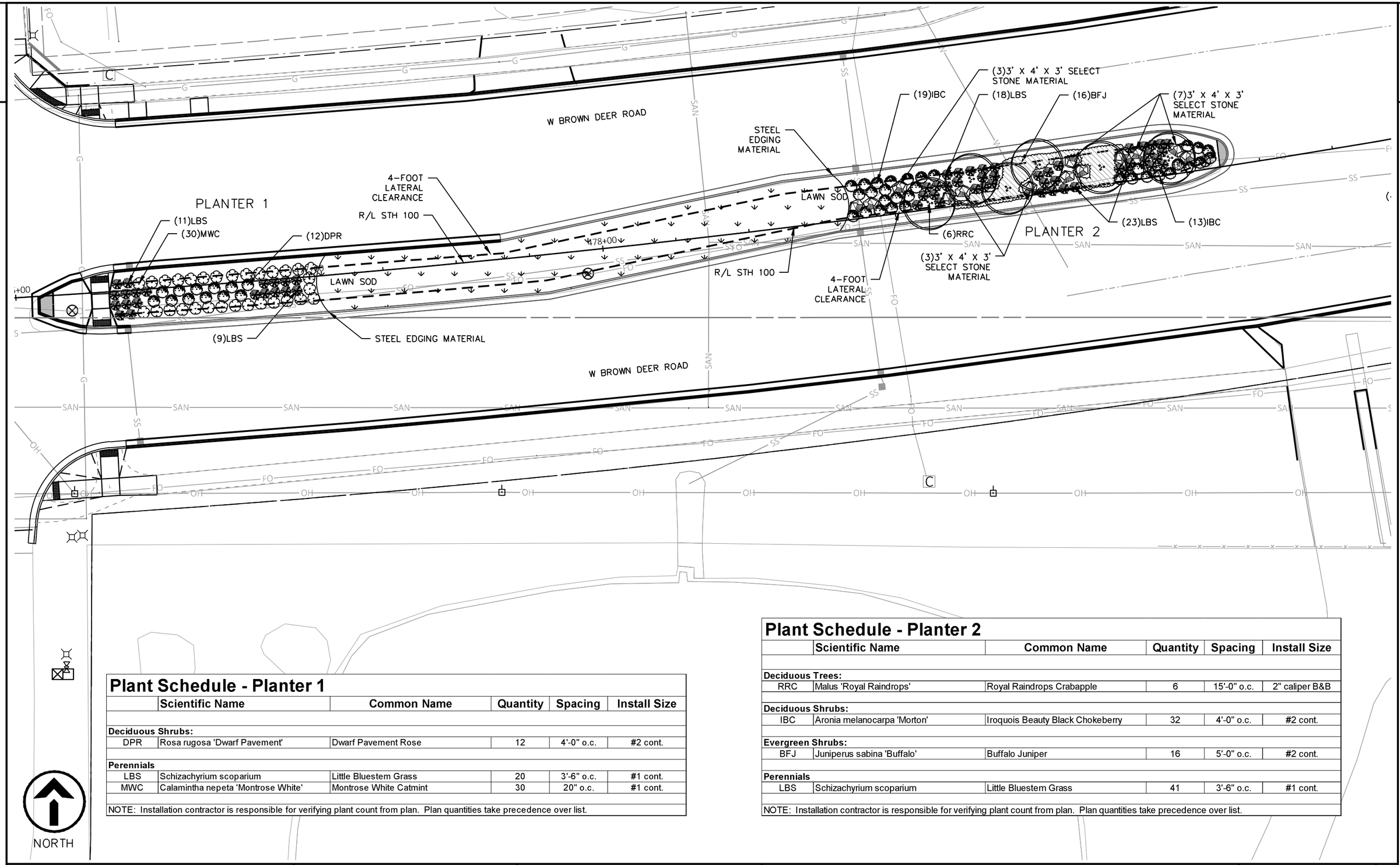


NORTH

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE/OZAUKEE	SITE LANDSCAPE PLAN	SHEET E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\Design\DGN\References
LAYOUT NAME - L104 - SITE LANDSCAPE PLAN

PLOT DATE : LANDSCAPE PLANS PLOT BY : KEVIN BYRNE PLOT NAME : PLOT SCALE : 1 IN:80 FT



Plant Schedule - Planter 1

	Scientific Name	Common Name	Quantity	Spacing	Install Size
Deciduous Shrubs:					
DPR	Rosa rugosa 'Dwarf Pavement'	Dwarf Pavement Rose	12	4'-0" o.c.	#2 cont.
Perennials					
LBS	Schizachyrium scoparium	Little Bluestem Grass	20	3'-6" o.c.	#1 cont.
MWC	Calamintha nepeta 'Montrose White'	Montrose White Catmint	30	20" o.c.	#1 cont.

NOTE: Installation contractor is responsible for verifying plant count from plan. Plan quantities take precedence over list.

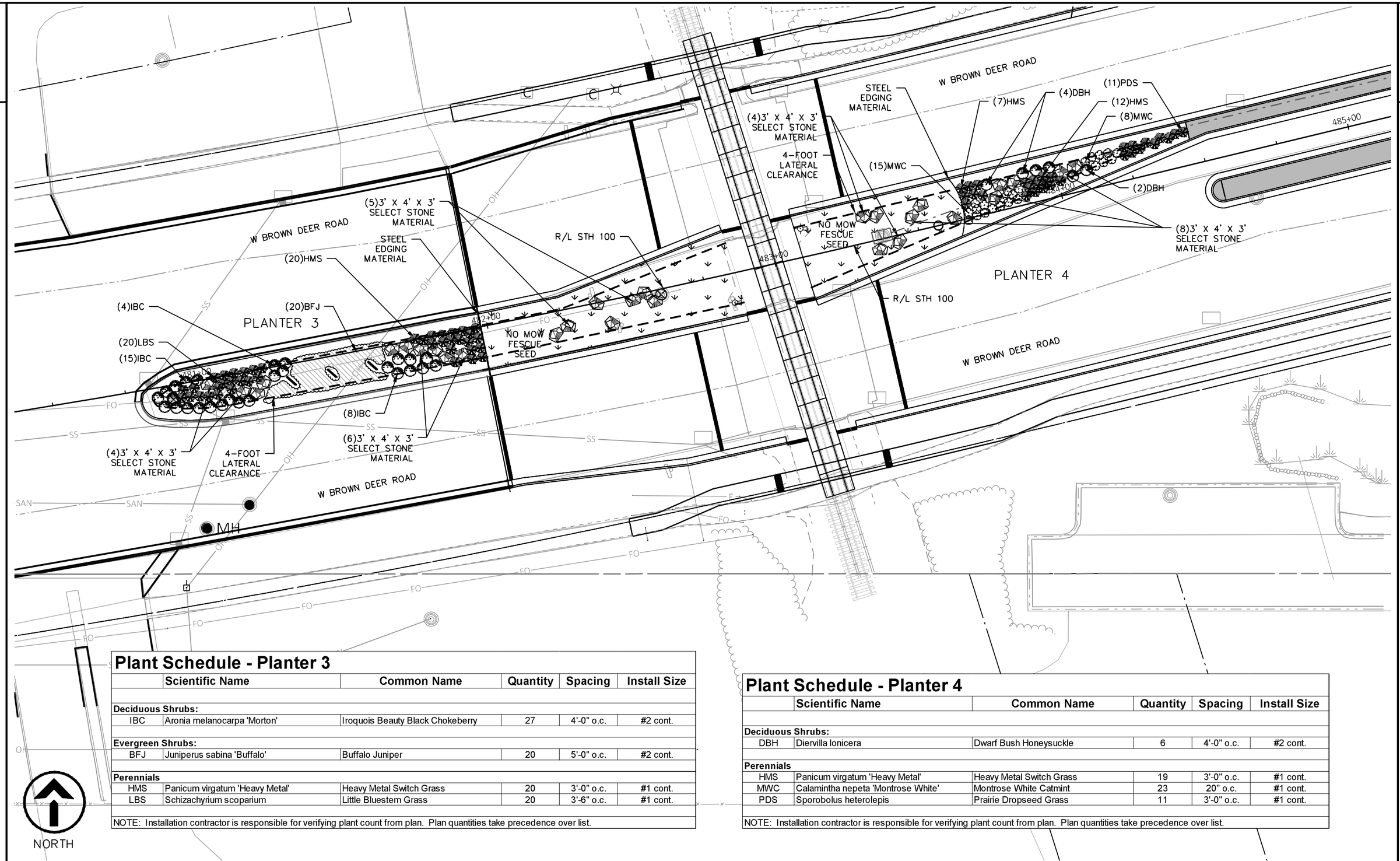
Plant Schedule - Planter 2

	Scientific Name	Common Name	Quantity	Spacing	Install Size
Deciduous Trees:					
RRC	Malus 'Royal Raindrops'	Royal Raindrops Crabapple	6	15'-0" o.c.	2" caliper B&B
Deciduous Shrubs:					
IBC	Aronia melanocarpa 'Morton'	Iroquois Beauty Black Chokeberry	32	4'-0" o.c.	#2 cont.
Evergreen Shrubs:					
BFJ	Juniperus sabina 'Buffalo'	Buffalo Juniper	16	5'-0" o.c.	#2 cont.
Perennials					
LBS	Schizachyrium scoparium	Little Bluestem Grass	41	3'-6" o.c.	#1 cont.

NOTE: Installation contractor is responsible for verifying plant count from plan. Plan quantities take precedence over list.

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE/OZAUKEE	SITE LANDSCAPE PLAN - EAST ENTRY ENLARGEMENT	SHEET E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\Design\DGN\References
LAYOUT NAME - L105 SITE LANDSCAPE PLAN
PLOT DATE : LANDSCAPE PLANS PLOT BY : KEVIN BYRNE PLOT NAME : PLOT SCALE : 1 IN:30 FT



Plant Schedule - Planter 3

	Scientific Name	Common Name	Quantity	Spacing	Install Size
Deciduous Shrubs:					
IBC	Aronia melanocarpa 'Morton'	Iroquois Beauty Black Chokeberry	27	4'-0" o.c.	#2 cont.
Evergreen Shrubs:					
BFJ	Juniperus sabina 'Buffalo'	Buffalo Juniper	20	5'-0" o.c.	#2 cont.
Perennials					
HMS	Panicum virgatum 'Heavy Metal'	Heavy Metal Switch Grass	20	3'-0" o.c.	#1 cont.
LBS	Schizachyrium scoparium	Little Bluestem Grass	20	3'-6" o.c.	#1 cont.

NOTE: Installation contractor is responsible for verifying plant count from plan. Plan quantities take precedence over list.

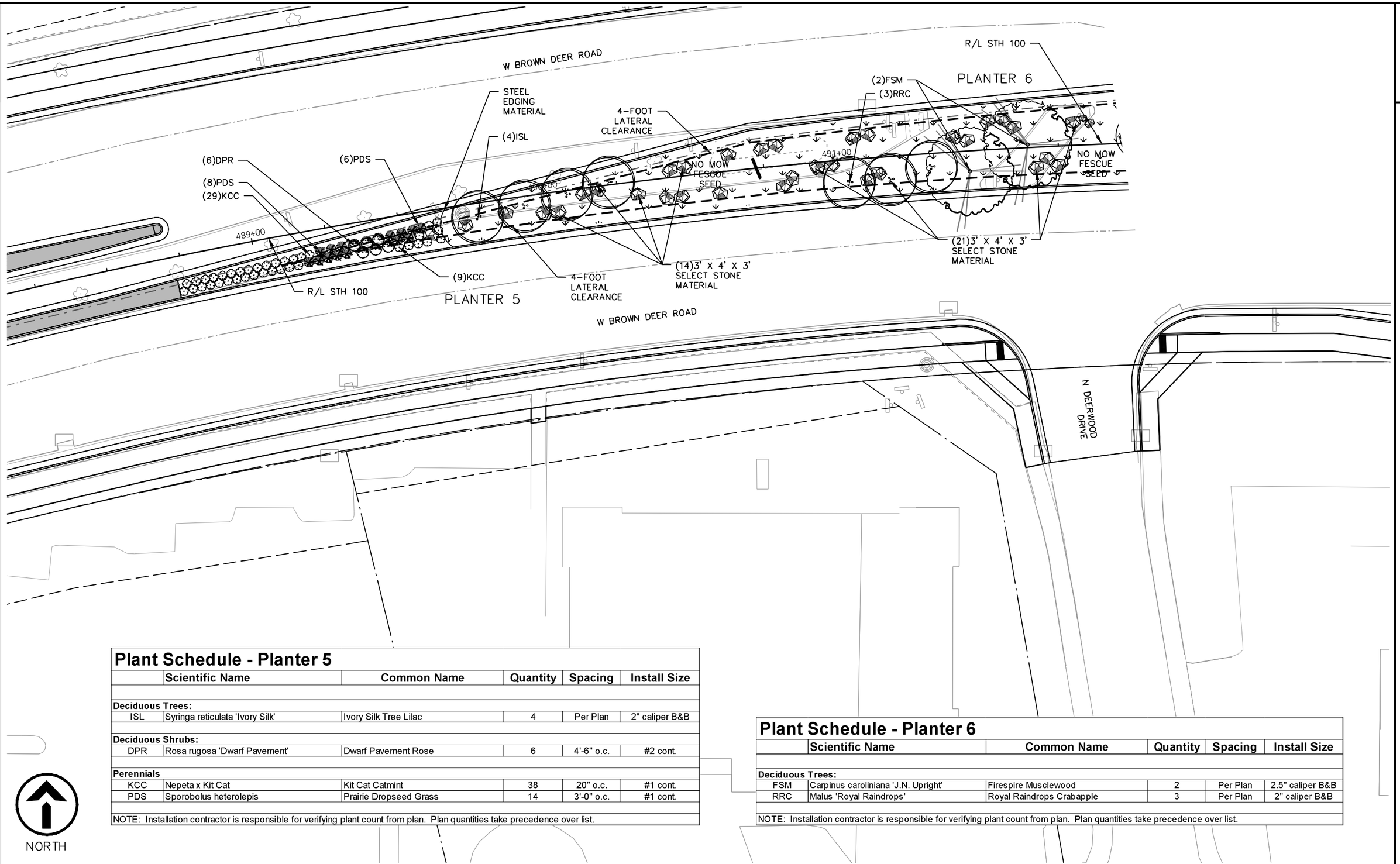
Plant Schedule - Planter 4

	Scientific Name	Common Name	Quantity	Spacing	Install Size
Deciduous Shrubs:					
DBH	Diervilla lonicera	Dwarf Bush Honeysuckle	6	4'-0" o.c.	#2 cont.
Perennials					
HMS	Panicum virgatum 'Heavy Metal'	Heavy Metal Switch Grass	19	3'-0" o.c.	#1 cont.
MWC	Calamintha nepeta 'Montrose White'	Montrose White Catmint	23	20" o.c.	#1 cont.
PDS	Sporobolus heterolepis	Prairie Dropseed Grass	11	3'-0" o.c.	#1 cont.

NOTE: Installation contractor is responsible for verifying plant count from plan. Plan quantities take precedence over list.

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE/OZAUKEE	SITE LANDSCAPE PLAN - EAST ENTRY ENLARGEMENT	SHEET E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\Design\DGN\References
LAYOUT NAME - L106 SITE LANDSCAPE PLAN
PLOT DATE : LANDSCAPE PLANS PLOT BY : KEVIN BYRNE PLOT NAME : PLOT SCALE : 1 IN:30 FT



Plant Schedule - Planter 5

	Scientific Name	Common Name	Quantity	Spacing	Install Size
Deciduous Trees:					
ISL	Syringa reticulata 'Ivory Silk'	Ivory Silk Tree Lilac	4	Per Plan	2" caliper B&B
Deciduous Shrubs:					
DPR	Rosa rugosa 'Dwarf Pavement'	Dwarf Pavement Rose	6	4'-6" o.c.	#2 cont.
Perennials					
KCC	Nepeta x Kit Cat	Kit Cat Catmint	38	20" o.c.	#1 cont.
PDS	Sporobolus heterolepis	Prairie Dropseed Grass	14	3'-0" o.c.	#1 cont.

NOTE: Installation contractor is responsible for verifying plant count from plan. Plan quantities take precedence over list.

Plant Schedule - Planter 6

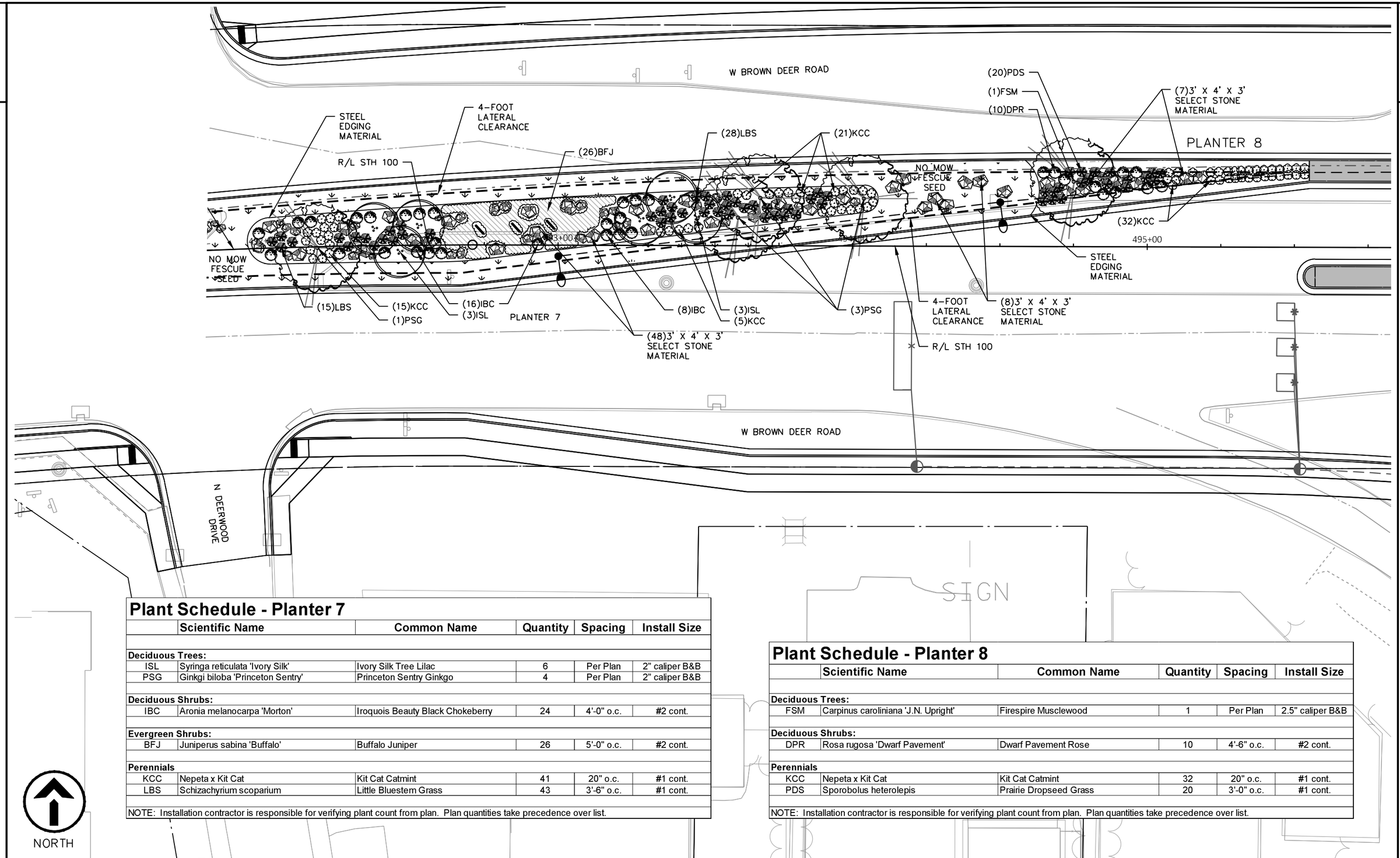
	Scientific Name	Common Name	Quantity	Spacing	Install Size
Deciduous Trees:					
FSM	Carpinus caroliniana 'J.N. Upright'	Firespire Musclewood	2	Per Plan	2.5" caliper B&B
RRC	Malus 'Royal Raindrops'	Royal Raindrops Crabapple	3	Per Plan	2" caliper B&B

NOTE: Installation contractor is responsible for verifying plant count from plan. Plan quantities take precedence over list.

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE/OZAUKEE	SITE LANDSCAPE PLAN - EAST ENTRY ENLARGEMENT	SHEET E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\Design\DGN\References
LAYOUT NAME - L107 SITE LANDSCAPE PLAN

PLOT DATE : LANDSCAPE PLANS PLOT BY : KEVIN BYRNE PLOT NAME : PLOT SCALE : 1 IN:30 FT



Plant Schedule - Planter 7

	Scientific Name	Common Name	Quantity	Spacing	Install Size
Deciduous Trees:					
ISL	Syringa reticulata 'Ivory Silk'	Ivory Silk Tree Lilac	6	Per Plan	2" caliper B&B
PSG	Ginkgi biloba 'Princeton Sentry'	Princeton Sentry Ginkgo	4	Per Plan	2" caliper B&B
Deciduous Shrubs:					
IBC	Aronia melanocarpa 'Morton'	Iroquois Beauty Black Chokeberry	24	4'-0" o.c.	#2 cont.
Evergreen Shrubs:					
BFJ	Juniperus sabina 'Buffalo'	Buffalo Juniper	26	5'-0" o.c.	#2 cont.
Perennials					
KCC	Nepeta x Kit Cat	Kit Cat Catmint	41	20" o.c.	#1 cont.
LBS	Schizachyrium scoparium	Little Bluestem Grass	43	3'-6" o.c.	#1 cont.

NOTE: Installation contractor is responsible for verifying plant count from plan. Plan quantities take precedence over list.

Plant Schedule - Planter 8

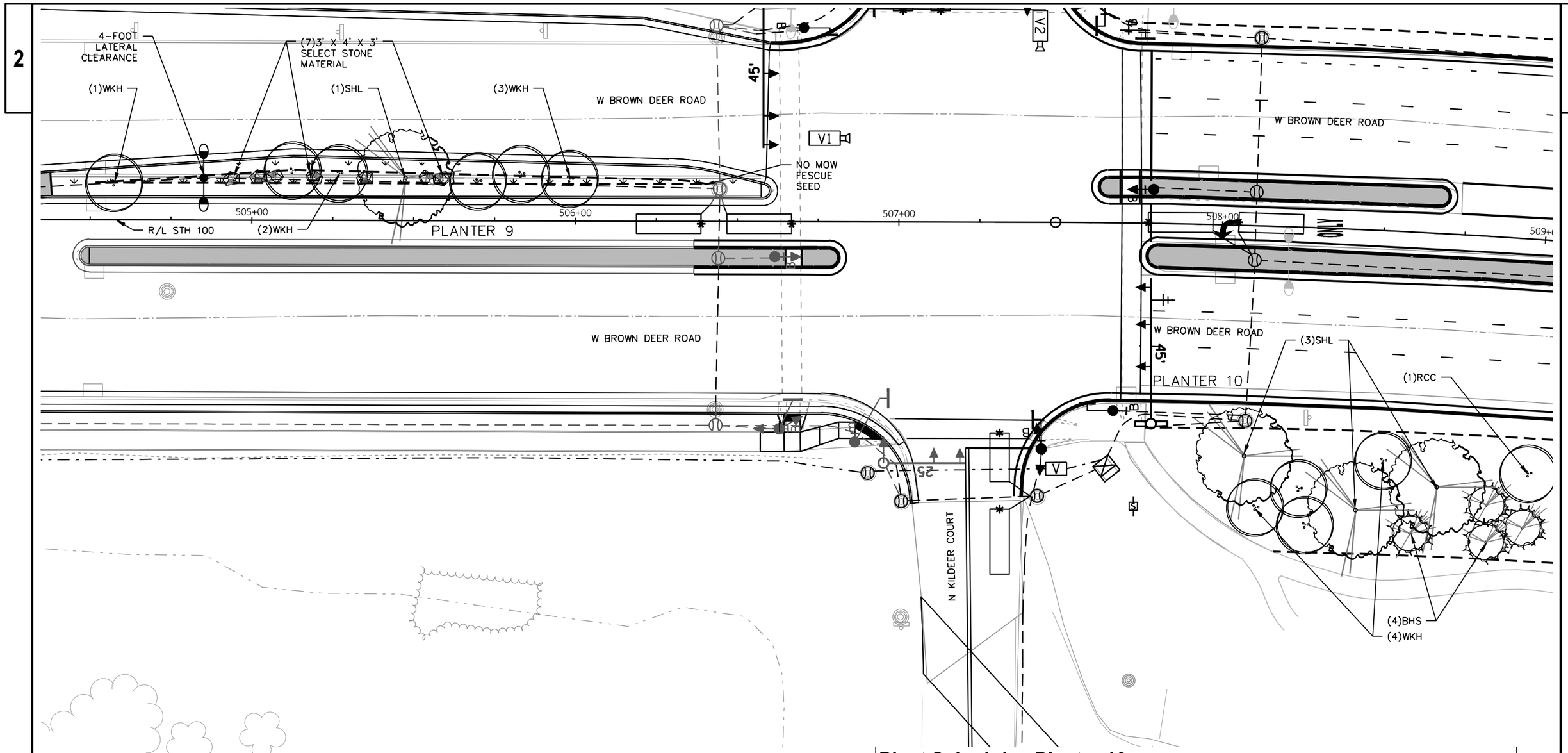
	Scientific Name	Common Name	Quantity	Spacing	Install Size
Deciduous Trees:					
FSM	Carpinus caroliniana 'J.N. Upright'	Firespire Musclewood	1	Per Plan	2.5" caliper B&B
Deciduous Shrubs:					
DPR	Rosa rugosa 'Dwarf Pavement'	Dwarf Pavement Rose	10	4'-6" o.c.	#2 cont.
Perennials					
KCC	Nepeta x Kit Cat	Kit Cat Catmint	32	20" o.c.	#1 cont.
PDS	Sporobolus heterolepis	Prairie Dropseed Grass	20	3'-0" o.c.	#1 cont.

NOTE: Installation contractor is responsible for verifying plant count from plan. Plan quantities take precedence over list.

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE/OZAUKEE	SITE LANDSCAPE PLAN - EAST ENTRY ENLARGEMENT	SHEET E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\Design\DGN\References
LAYOUT NAME - L108 SITE LANDSCAPE PLAN
PLOT DATE : LANDSCAPE PLANS PLOT BY : KEVIN BYRNE PLOT NAME : PLOT SCALE : 1 IN:30 FT

DS SHEET 42



Plant Schedule - Planter 9

	Scientific Name	Common Name	Quantity	Spacing	Install Size
Deciduous Trees:					
SHL	Gleditsia triacanthos 'Shademaster' PP 1515	Shademaster Honeylocust	1	24'-6" o.c.	2.5" caliper B&B
WKH	Crataegus viridis 'Winter King'	Winter King Hawthorn	6	Per Plan	2.5" caliper B&B

NOTE: Installation contractor is responsible for verifying plant count from plan. Plan quantities take precedence over list.

NORTH

Plant Schedule - Planter 10

	Scientific Name	Common Name	Quantity	Spacing	Install Size
Deciduous Trees:					
RRC	Malus 'Royal Raindrops'	Royal Raindrops Crabapple	1	15'-0" o.c.	2" caliper B&B
SHL	Gleditsia triacanthos 'Shademaster' PP 1515	Shademaster Honeylocust	3	24'-6" o.c.	2.5" caliper B&B
WKH	Crataegus viridis 'Winter King'	Winter King Hawthorn	4	20'-0" o.c.	2.5" caliper B&B
Evergreen Trees:					
BHS	Picea glauca var. densata	Black Hills Spruce	4	18'-0" o.c.	6' B&B

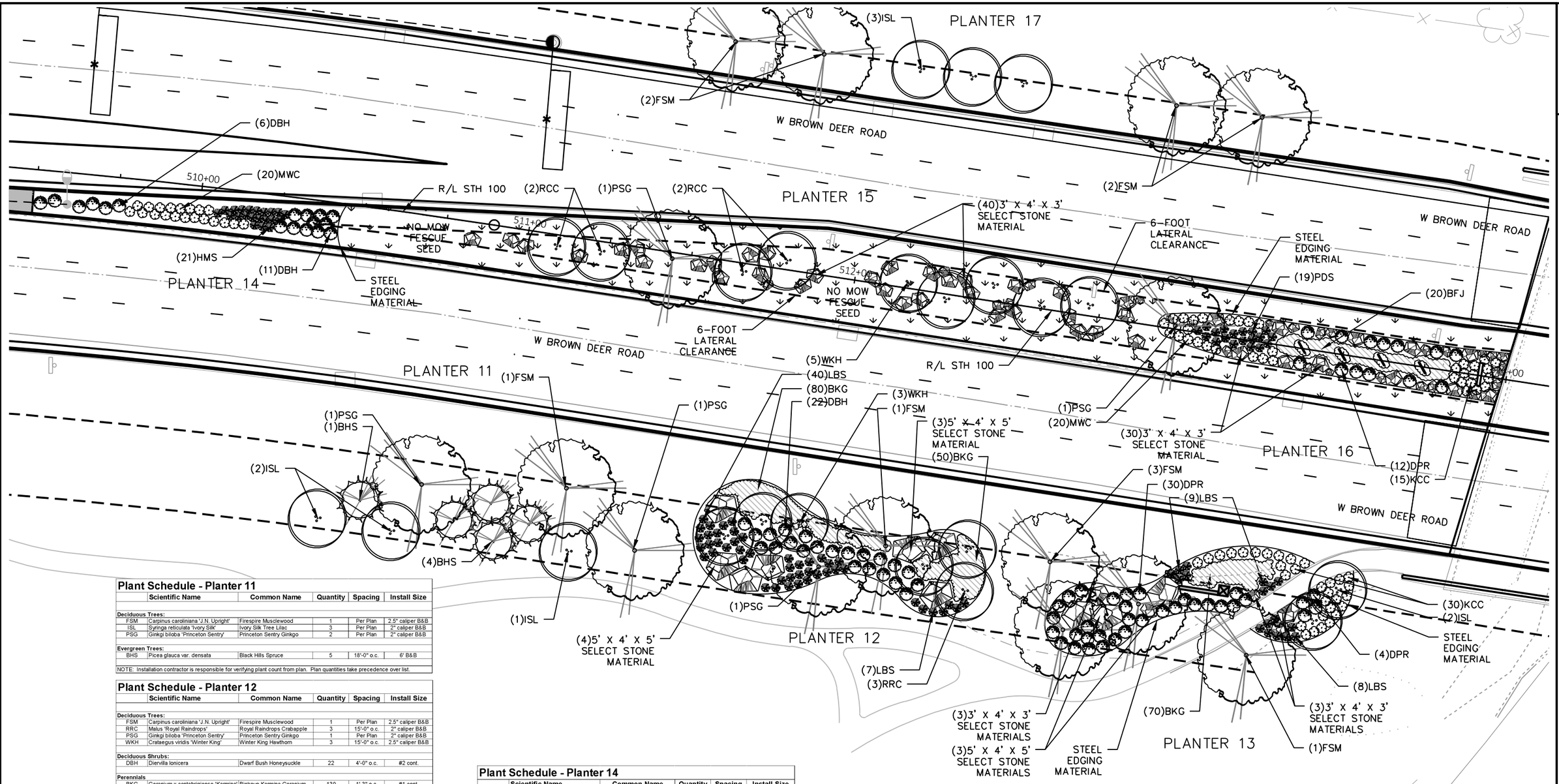
NOTE: Installation contractor is responsible for verifying plant count from plan. Plan quantities take precedence over list.

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE/OZAUKEE	SITE LANDSCAPE PLAN - EAST ENTRY ENLARGEMENT	SHEET E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\Design\DGN\References
LAYOUT NAME - L109 SITE LANDSCAPE PLAN

PLOT DATE : LANDSCAPE PLANS PLOT BY : KEVIN BYRNE PLOT NAME : PLOT SCALE : 1 IN:30 FT

DS SHEET 42



Plant Schedule - Planter 11

	Scientific Name	Common Name	Quantity	Spacing	Install Size
Deciduous Trees:					
FSM	Carpinus caroliniana 'J.N. Upright'	Firespire Musclewood	1	Per Plan	2.5" caliper B&B
ISL	Syringa reticulata 'Ivory Silk'	Ivory Silk Tree Lilac	3	Per Plan	2" caliper B&B
PSG	Ginkgi biloba 'Princeton Sentry'	Princeton Sentry Ginkgo	2	Per Plan	2" caliper B&B
Evergreen Trees:					
BHS	Picea glauca var. densata	Black Hills Spruce	5	18'-0" o.c.	6' B&B

NOTE: Installation contractor is responsible for verifying plant count from plan. Plan quantities take precedence over list.

Plant Schedule - Planter 12

	Scientific Name	Common Name	Quantity	Spacing	Install Size
Deciduous Trees:					
FSM	Carpinus caroliniana 'J.N. Upright'	Firespire Musclewood	1	Per Plan	2.5" caliper B&B
RRC	Malus 'Royal Raindrops'	Royal Raindrops Crabapple	3	15'-0" o.c.	2" caliper B&B
PSG	Ginkgi biloba 'Princeton Sentry'	Princeton Sentry Ginkgo	1	Per Plan	2" caliper B&B
WKH	Crataegus viridis 'Winter King'	Winter King Hawthorn	3	15'-0" o.c.	2.5" caliper B&B
Deciduous Shrubs:					
DBH	Diervilla lonicera	Dwarf Bush Honeysuckle	22	4'-0" o.c.	#2 cont.
Perennials					
BKG	Geranium x cantabrigiense 'Karmina'	Biokovo Karmina Geranium	130	1'-3" o.c.	#1 cont.
LBS	Schizachyrium scoparium	Little Bluestem Grass	47	3'-6" o.c.	#1 cont.

NOTE: Installation contractor is responsible for verifying plant count from plan. Plan quantities take precedence over list.

Plant Schedule - Planter 13

	Scientific Name	Common Name	Quantity	Spacing	Install Size
Deciduous Trees:					
FSM	Carpinus caroliniana 'J.N. Upright'	Firespire Musclewood	4	Per Plan	2.5" caliper B&B
ISL	Syringa reticulata 'Ivory Silk'	Ivory Silk Tree Lilac	2	Per Plan	2" caliper B&B
Deciduous Shrubs:					
DPR	Rosa rugosa 'Dwarf Pavement'	Dwarf Pavement Rose	34	4'-6" o.c.	#2 cont.
Perennials					
BKG	Geranium x cantabrigiense 'Karmina'	Biokovo Karmina Geranium	70	1'-3" o.c.	#1 cont.
KCC	Nepeta x Kit Cat	Kit Cat Catmint	30	20" o.c.	#1 cont.
LBS	Schizachyrium scoparium	Little Bluestem Grass	17	3'-6" o.c.	#1 cont.

NOTE: Installation contractor is responsible for verifying plant count from plan. Plan quantities take precedence over list.

Plant Schedule - Planter 14

	Scientific Name	Common Name	Quantity	Spacing	Install Size
Deciduous Shrubs:					
DBH	Diervilla lonicera	Dwarf Bush Honeysuckle	18	4'-0" o.c.	#2 cont.
Perennials					
HMS	Panicum virgatum 'Heavy Metal'	Heavy Metal Switch Grass	18	3'-0" o.c.	#1 cont.
MWC	Calamintha nepeta 'Montrose White'	Montrose White Catmint	21	20" o.c.	#1 cont.

NOTE: Installation contractor is responsible for verifying plant count from plan. Plan quantities take precedence over list.

Plant Schedule - Planter 15

	Scientific Name	Common Name	Quantity	Spacing	Install Size
Deciduous Trees:					
RRC	Malus 'Royal Raindrops'	Royal Raindrops Crabapple	4	15'-0" o.c.	2" caliper B&B
PSG	Ginkgi biloba 'Princeton Sentry'	Princeton Sentry Ginkgo	1	Per Plan	2" caliper B&B
WKH	Crataegus viridis 'Winter King'	Winter King Hawthorn	5	15'-0" o.c.	2.5" caliper B&B

NOTE: Installation contractor is responsible for verifying plant count from plan. Plan quantities take precedence over list.

Plant Schedule - Planter 16

	Scientific Name	Common Name	Quantity	Spacing	Install Size
Deciduous Trees:					
PSG	Ginkgi biloba 'Princeton Sentry'	Princeton Sentry Ginkgo	1	Per Plan	2" caliper B&B
Deciduous Shrubs:					
DPR	Rosa rugosa 'Dwarf Pavement'	Dwarf Pavement Rose	12	4'-6" o.c.	#2 cont.
Evergreen Shrubs:					
BFJ	Juniperus sabina 'Buffalo'	Buffalo Juniper	20	5'-0" o.c.	#2 cont.
Perennials					
KCC	Nepeta x Kit Cat	Kit Cat Catmint	15	20" o.c.	#1 cont.
MWC	Calamintha nepeta 'Montrose White'	Montrose White Catmint	20	20" o.c.	#1 cont.
PDS	Sporobolus heterolepis	Prairie Dropseed Grass	19	3'-0" o.c.	#1 cont.

NOTE: Installation contractor is responsible for verifying plant count from plan. Plan quantities take precedence over list.

Plant Schedule - Planter 17

	Scientific Name	Common Name	Quantity	Spacing	Install Size
Deciduous Trees:					
FSM	Carpinus caroliniana 'J.N. Upright'	Firespire Musclewood	4	Per Plan	2.5" caliper B&B
ISL	Syringa reticulata 'Ivory Silk'	Ivory Silk Tree Lilac	3	Per Plan	2" caliper B&B

NOTE: Installation contractor is responsible for verifying plant count from plan. Plan quantities take precedence over list.

NORTH

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE/OZAUKEE	SITE LANDSCAPE PLAN - EAST ENTRY ENLARGEMENT	SHEET E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\Design\DGN\References
LAYOUT NAME - L110 SITE LANDSCAPE PLAN

PLOT DATE : LANDSCAPE PLANS PLOT BY : KEVIN BYRNE PLOT NAME : PLOT SCALE : 1 IN:30 FT

DS SHEET 42

2

2

N

N. UPPER RIVER ROAD

STH 100 (W. BROWN DEER ROAD)

516+00

517+00

518+00

519+00

520+00

521+00

521+75.00

522+

516+00.00

SOD

RBC

ABS

CCH

RBC

ABS

CCH

ADJUSTING INLET COVERS

MH

INL

SIGN

LEGEND

SOD

RBC - RED BARRON CRABAPPLE
ABS - AUTUMN BRILLIANCE SERVICEBERRY
CCH - CRIMSON CLOUD HAWTHORN

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PLANTINGS	SHEET 203	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\023101_PL.DWG
LAYOUT NAME - 021261

PLOT DATE : 4/14/2021 1:00 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

527+50.00

521+75.00

522+00

523+00

524+00

525+00

526+00

527+00

RBC

SOD

ABS

CCH

STH 100 (W. BROWN DEER ROAD)

LEGEND

SOD

RBC - RED BARRON CRABAPPLE
ABS - AUTUMN BRILLIANCE SERVICEBERRY
CCH - CRIMSON CLOUD HAWTHORN

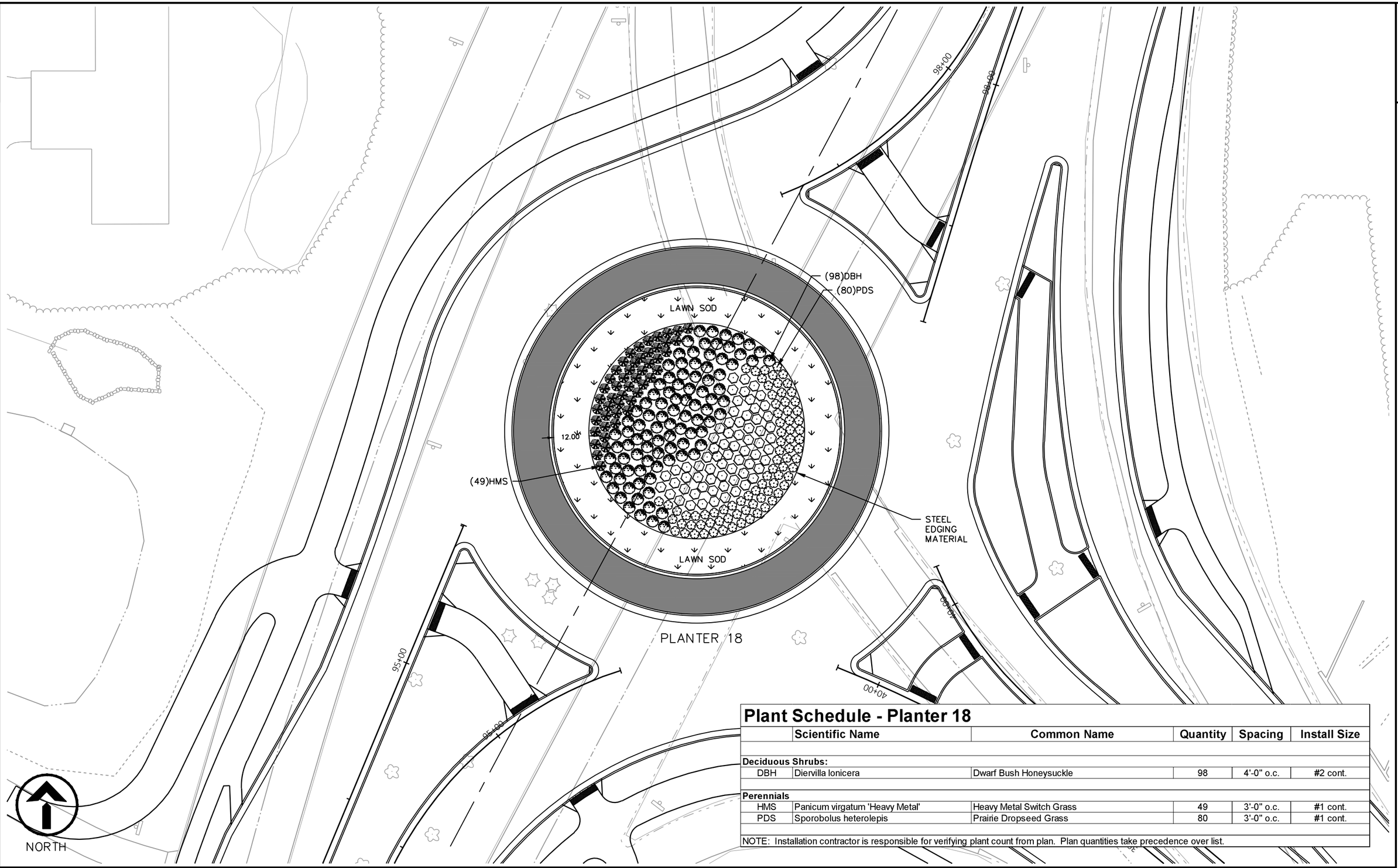
PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PLANTINGS	SHEET 204	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\023101_PL.DWG
LAYOUT NAME - 021262

PLOT DATE : 4/14/2021 1:01 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



Plant Schedule - Planter 18

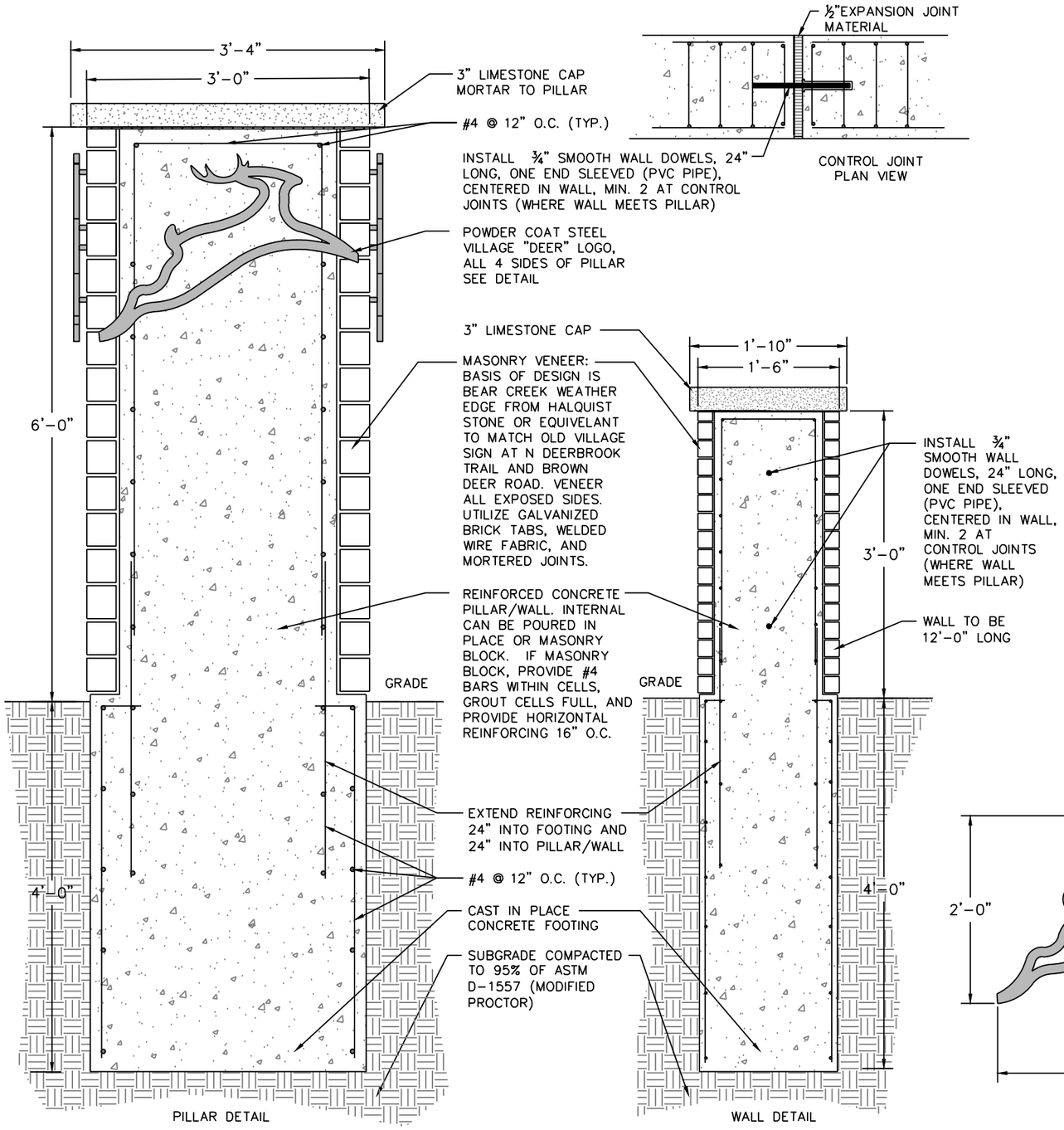
	Scientific Name	Common Name	Quantity	Spacing	Install Size
Deciduous Shrubs:					
DBH	Diervilla lonicera	Dwarf Bush Honeysuckle	98	4'-0" o.c.	#2 cont.
Perennials					
HMS	Panicum virgatum 'Heavy Metal'	Heavy Metal Switch Grass	49	3'-0" o.c.	#1 cont.
PDS	Sporobolus heterolepis	Prairie Dropseed Grass	80	3'-0" o.c.	#1 cont.

NOTE: Installation contractor is responsible for verifying plant count from plan. Plan quantities take precedence over list.

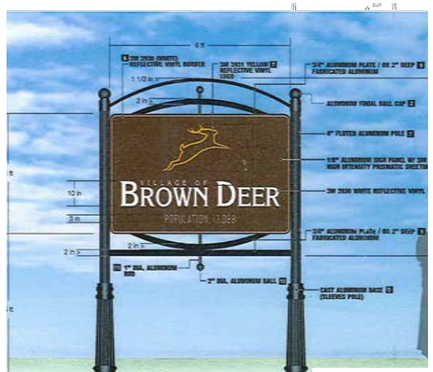
PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE/OZAUKEE	SITE LANDSCAPE PLAN - EAST ENTRY ENLARGEMENT	SHEET	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\Design\DGN\References
LAYOUT NAME - L111SITE LANDSCAPE PLAN

PLOT DATE : LANDSCAPE PLANS PLOT BY : KEVIN BYRNE PLOT NAME : PLOT SCALE : 1 IN:30 FT

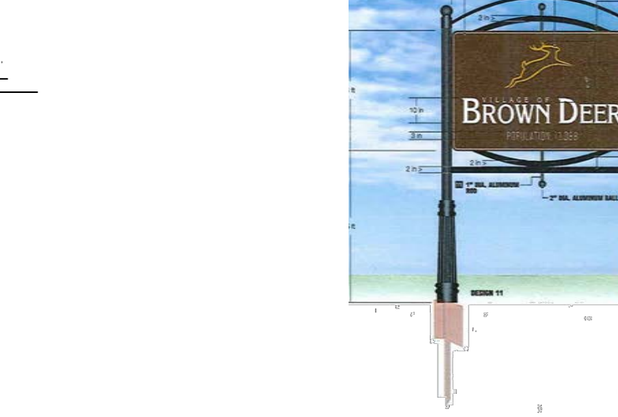


1 MASONRY WALL AND PILLAR DETAIL
N.T.S.

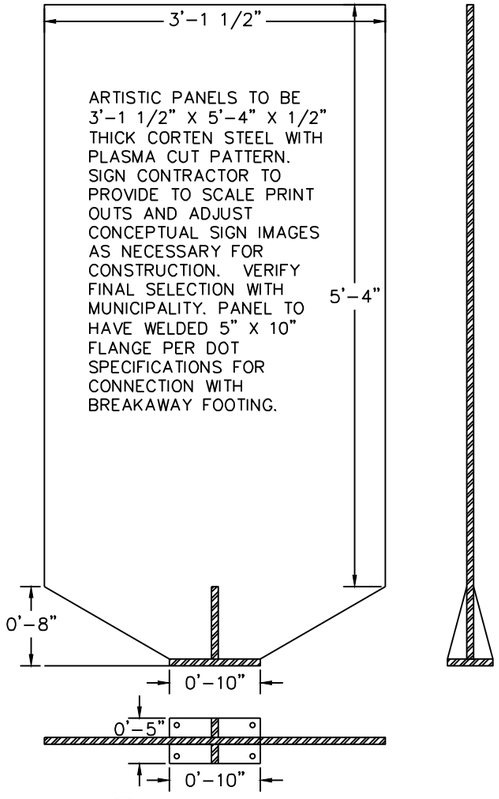


(2)NEW V-LOC BREAKAWAY POST ANCHORS 40-VR3 MODEL, FOR 4" ROUND POST, OR EQUIVALENT. MOUNT IN CONCRETE. RE-INSTALL EXISTING MONUMENT SIGN STOCKPILED DURING CONSTRUCTION. COORDINATE WITH MUNICIPALITY FOR STORAGE AREA OF SIGN

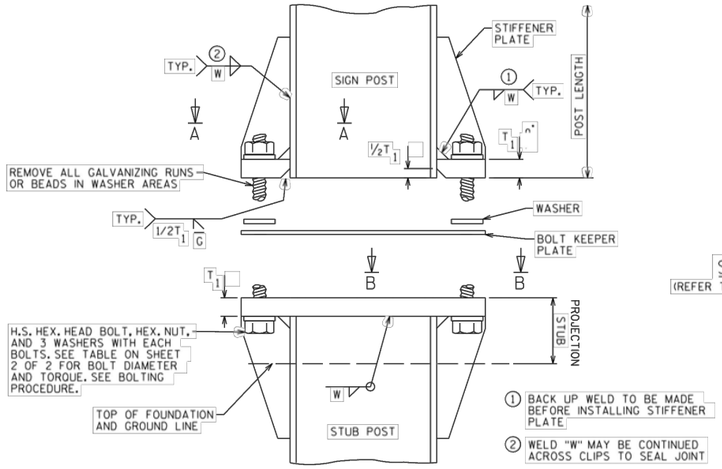
2 EXISTING MUNICIPAL MONUMENT SIGN
N.T.S.



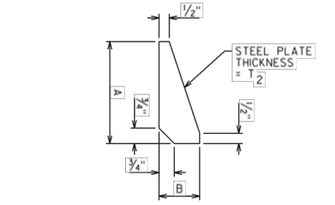
DEER LOGO DETAIL



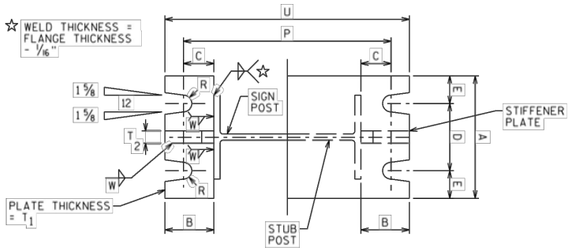
3 ARTISTIC PANEL
N.T.S.



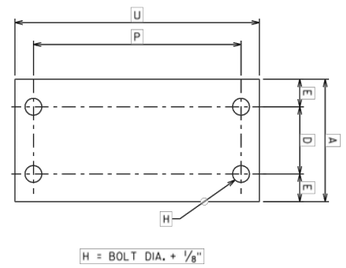
SIGN POST & STUB POST ELEVATION



STIFFENER PLATE DETAIL
(REFER TO TABLE ON SHEET 2 OF 2 FOR DIMENSIONS)



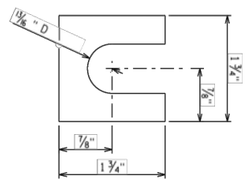
SECTION A-A SECTION B-B



BOLT KEEPER PLATE DETAIL
30 GA GALVANIZED SHEET STEEL

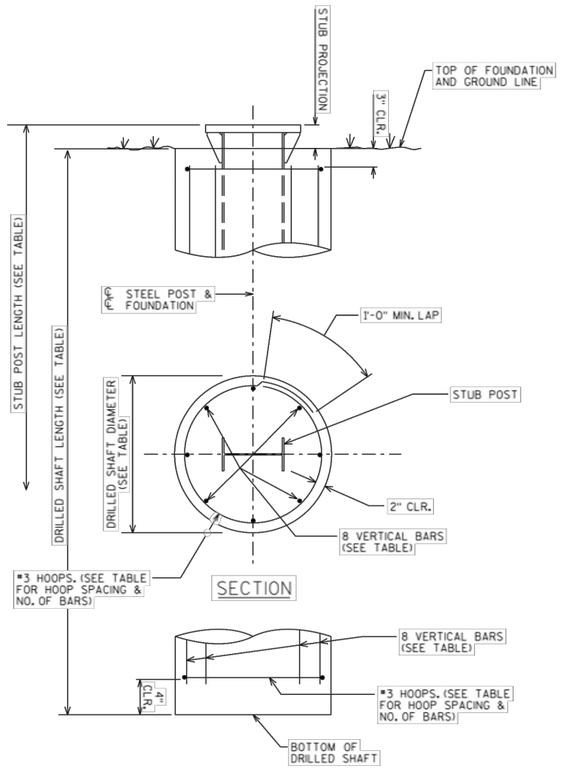
BOLTING PROCEDURE FOR BASE CONNECTION

1. ASSEMBLE SIGN POST, BOLT KEEPER PLATE, AND STUB POST WITH BOLTS AND THREE FLAT WASHERS PER BOLT AS SHOWN.
2. SHIM AS REQUIRED TO PLUMB POST.
3. PRIOR TO BOLT TIGHTENING, LUBRICATE BASE CONNECTION BOLTS WITH BEESWAX OR OTHER HIGH-WAX LUBRICANT.
4. TIGHTEN ALL BOLTS THE MAXIMUM POSSIBLE WITH A 12" OR 15" WRENCH TO BED WASHERS & SHIMS AND TO CLEAN BOLT THREADS.
5. LOOSEN EACH BOLT IN TURN AND RETIGHTEN IN A SYSTEMATIC ORDER TO THE PERSCRIBED TORQUE. (SEE TABLE FOR PERSCRIBED TORQUE). DO NOT OVER-TIGHTEN.
6. BURR THREADS AT JUNCTION WITH NUT USING A CENTER PUNCH TO PREVENT NUT LOOSENING.



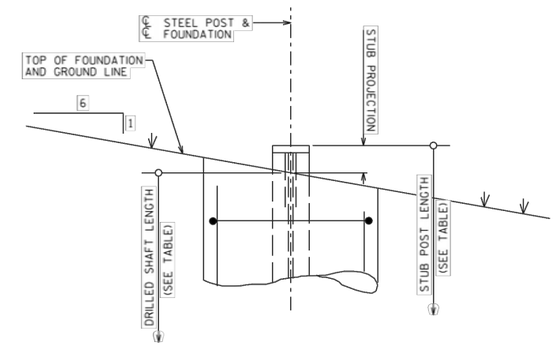
SHIM DETAIL

FURNISH TWO .012"± THICK AND TWO .032"± THICK SHIMS PER POST. SHIMS SHALL BE FABRICATED FROM BRASS SHIM STOCK OR STRIP CONFORMING TO ASTM B36.



SECTION

FOUNDATION DETAIL



SHAFT PLACEMENT

FOUNDATION DATA TABLE

POST SHAPE	STUB LENGTH	STUB PROJECTION	DRILLED SHAFT DIAMETER ◆	DRILLED SHAFT LENGTH ◆	VERTICAL BARS SIZE ◆	VERTICAL BARS LENGTH ◆	HOOPS MAX SPA. ◆	HOOPS NO. ◆	CONCRETE VOLUME ◆	TOTAL REINF. WEIGHT ◆
W6X15	2'-6"	3"	24"	6'-6"	#5	5'-11"	10"	9	0.8 CY	71 LB

◆ QUANTITIES SHOWN ARE FOR ONE DRILLED SHAFT

BASE CONNECTION DATA TABLE

POST SHAPE	WEIGHT PER FOOT	BOLT SIZE & TORQUE	BASE CONNECTION DATA A	B	C	D	E	T1	T2	W	R	BOLT KEEPER PLATE DATA P	U
W6X15	15 LB	5/8" DIA. X 4" 36 TO 38 FT-LB	5"	2"	1 1/4"	2 3/4"	1 1/8"	1 1/4"	1/2"	1/4"	11/32	8 1/2"	10"

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED

MATERIALS SHALL CONFORM TO THE WISCONSIN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS SECTION 506, UNLESS NOTED OTHERWISE.

FABRICATION SHALL CONFORM TO THE WISCONSIN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS SECTION 506.

ALL POST, POST STUBS & ATTACHMENTS SHALL BE ASTM A709 GRADE 50, GALVANIZED IN ACCORDANCE WITH ASTM A123.

THE POST, BASE PLATES, UPPER SIX INCHES OF STUB POST, FLANGE SPLICE PLATE AND FUSE PLATE SHALL BE GALVANIZED AFTER FABRICATION.

H.S. BOLTS, WASHERS, & NUTS SHALL BE A325 GALVANIZED.

FOUNDATION MATERIAL PROPERTIES

CONCRETE MASONRY F'C = 3,500 P.S.I.
BAR STEEL REINFORCEMENT (UNCOATED), GRADE 60 FY = 60,000 P.S.I.

3 ARTISTIC PANEL BREAKAWAY FOOTING

N.T.S.

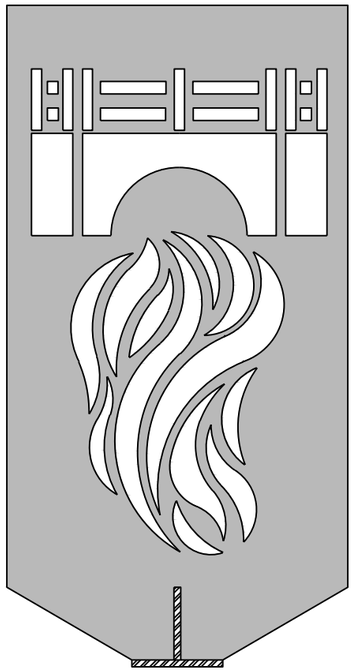
2



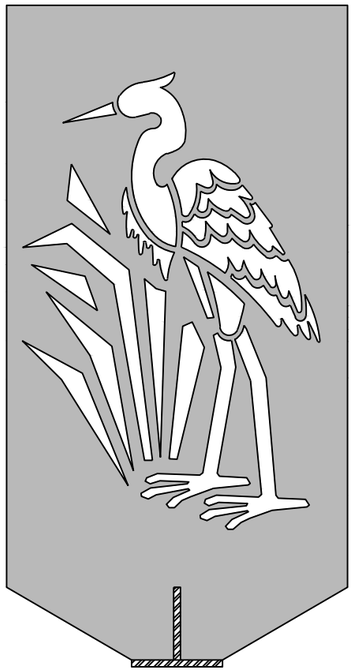
LEAF PANEL (LF)



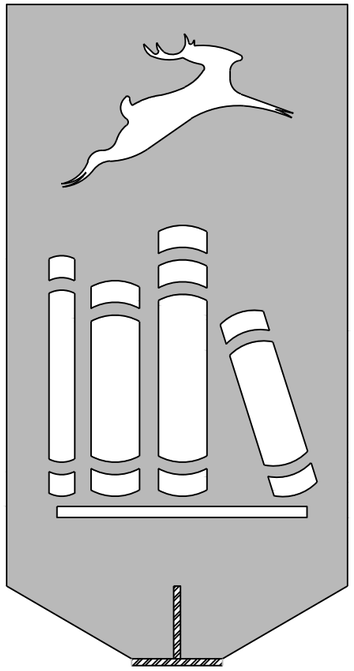
CONEFLOWER PANEL (CF)



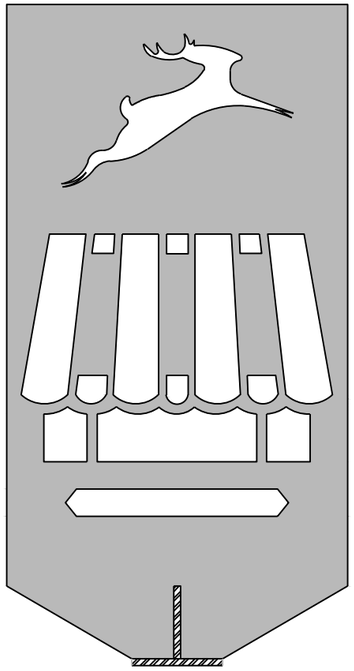
RIVER PANEL (RR)



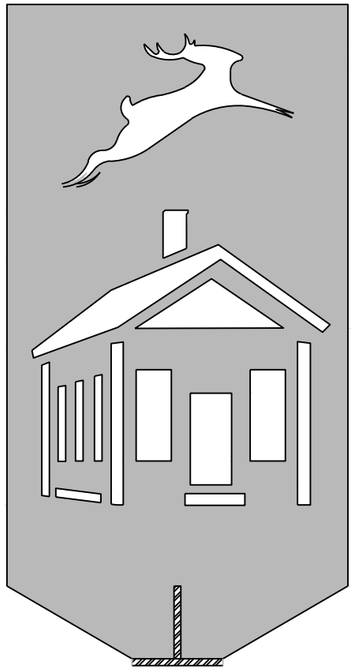
CRANE PANEL (CR)



LIBRARY PANEL (LB)



MARKET PANEL (MK)



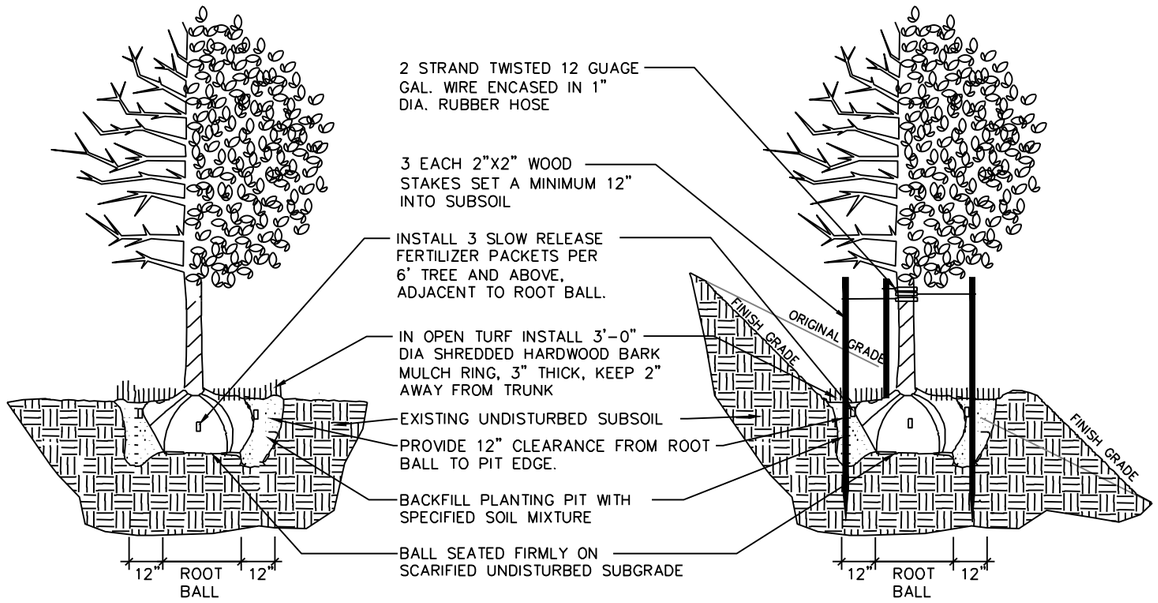
SCHOOL PANEL (SC)

5 ARTISTIC PANEL GRAPHICS
N.T.S.

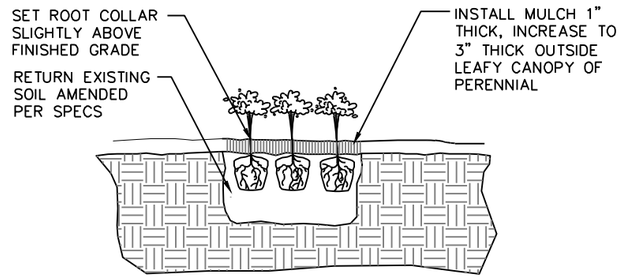
PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE/OZAUKEE	SITE LANDSCAPING DETAILS	SHEET 208 E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\Design\DGN\References
LAYOUT NAME - L211 SITE LANDSCAPE DETAILS

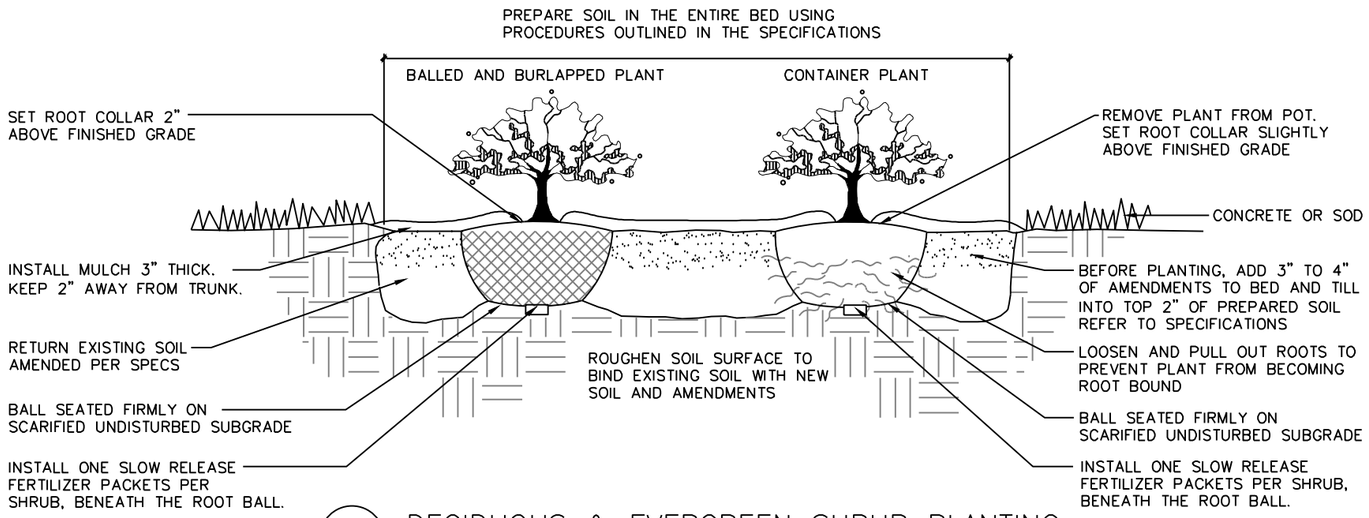
PLOT DATE : LANDSCAPE PLANS PLOT BY : KEVIN BYRNE PLOT NAME : PLOT SCALE : N.T.S.



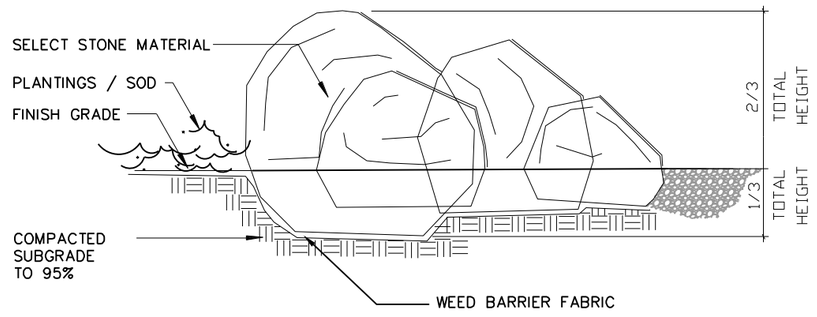
6 DECIDUOUS TREE PLANTING, STAKING, & PLANTING ON A SLOPE
N.T.S.



7 PERENNIAL PLANTING
N.T.S.

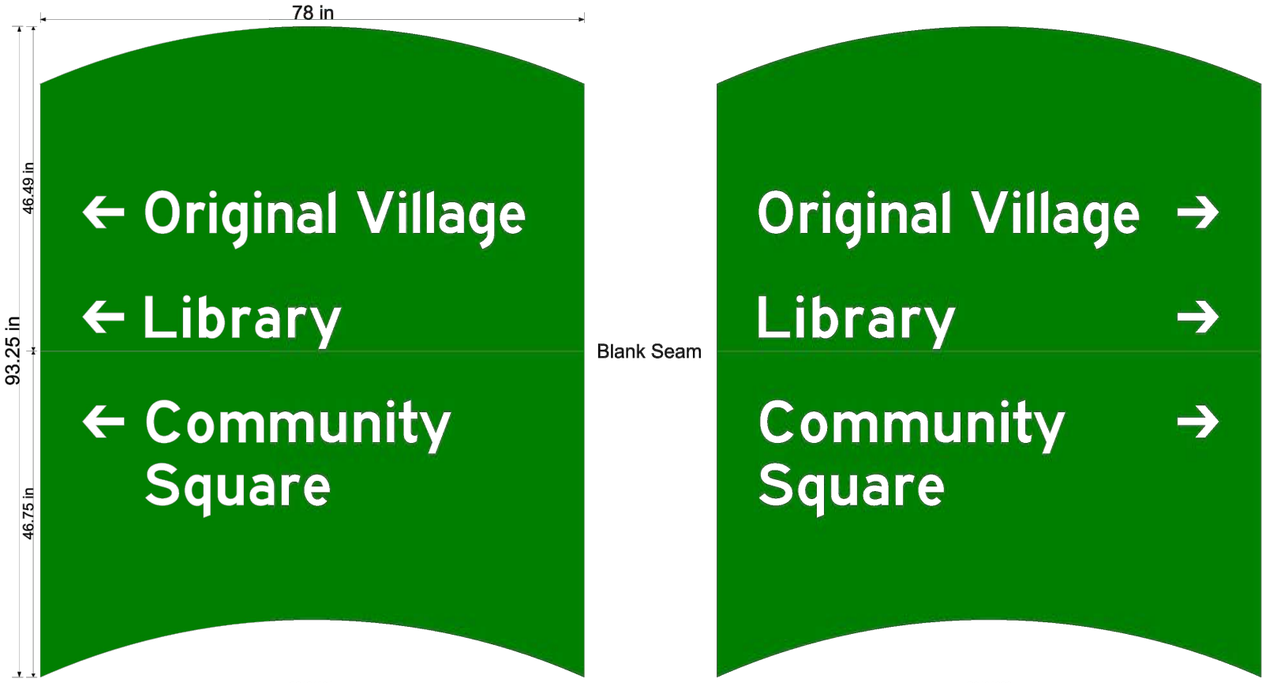


8 DECIDUOUS & EVERGREEN SHRUB PLANTING
N.T.S.

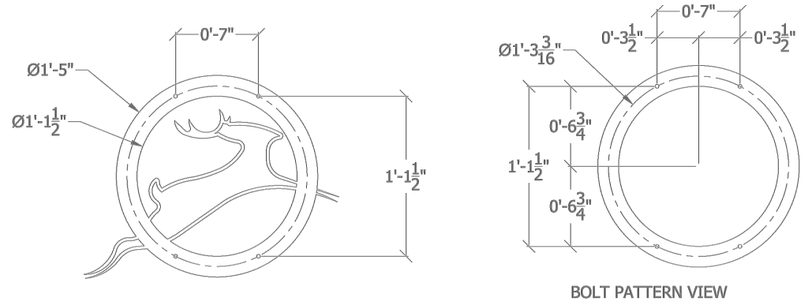


9 SELECT STONE MATERIAL
N.T.S. 3'X4'X3' & 5'X3'X5'

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE/OZAUKEE	SITE LANDSCAPING DETAILS	SHEET 209	E



Sheeting: HIP White, double sided
78"x93.25" .125 gauge custom cut in (2) pieces:
78"x46.49" & 78"x46.75"



BOLT PATTERN VIEW

1) RPL $\frac{3}{8}$" X 1'-0" "P1" GALVANIZED THEN POWDERCOATED

* ALL MISCELLANEOUS PIECES: STRINGERS, RAILING, HEADERS, ANGLES, COLUMNS, PLATES, STAIR PANS, LADDERS, ETC. TO BE CLEARLY TAGGED WITH AN ABBREVIATED JOB NAME, S.O. NO. , STAIR NO. , AND PIECE MARKS FOR SHIPPING & INSTALLERS.

* ALL DIMENSIONS HAVE BEEN FIELD VERIFIED BY CARDINAL FOR FABRICATION.

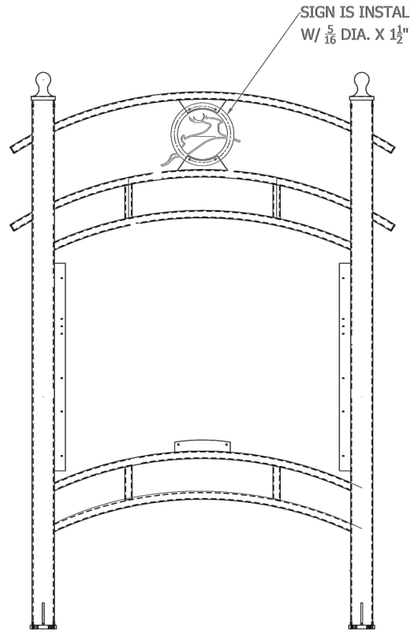
* ALL FIELD CONNECTIONS TO BE FULLY WELDED & RE-PRIMED. ALL EXPOSED NON-STRUCTURAL WELDS TO BE GROUND SMOOTH AND RE-PRIMED.

* ALL SHOP WELDS TO BE A MINIMUM $\frac{1}{4}$" FILLET. (UNLESS NOTED)

QUAN	SIZE	LENGTH	ITEM	REMARKS
1	RPL $\frac{3}{8}$"	1'-0"	P1	REMARKS
4	$\frac{5}{16}$ DIA. BOLTS	0'-1½"		

REVISIONS

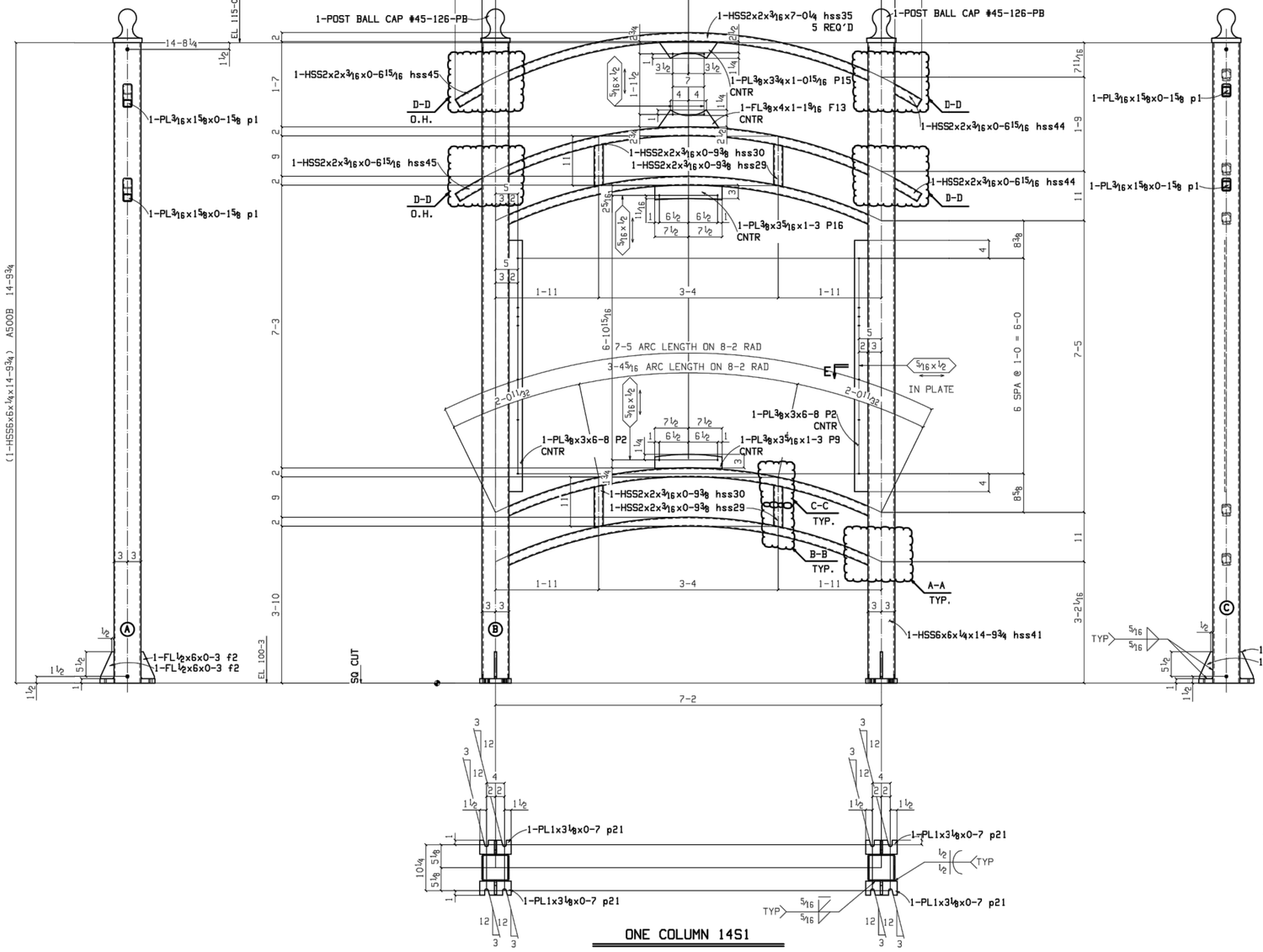
STEEL ALL WF SHAPES - GRADE 50/A992
ALL TUBES - A-500 GRADE B
ALL OTHER SHAPES - A36 UNLESS NOTED
OPEN HOLES AS NOTED
PAINT NOTE GALV, THEN POWDERCOATED



ALL WELDS ¼ FILLET UNLESS NOTED
ALL COPES & ROUNDS
R = ½" UNLESS NOTED

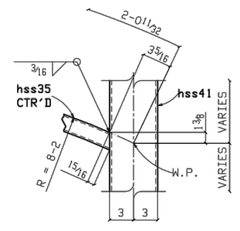
STEEL ALL WF SHAPES - A992 GRADE-50
ALL TUBES - A500 GRADE B
ALL OTHER SHAPES - A36 UNLESS NOTED
OPEN HOLES 13/16 UNLESS NOTED
SHOP PAINT SEE PAINT NOTE

10 VILLAGE WAYFINDING SIGN WITH BREAKAWAY FOUNDATIONS
N.T.S.

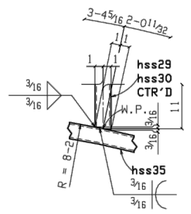


BILL OF MATERIAL

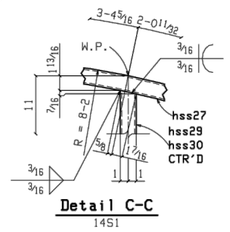
SEQ. NO.	SEQ. QTY.	QTY TOTAL	QTY UNIT	PIECE MARK	MINOR MARK	DESCRIPTION	LENGTH	HEIGHT UNIT	HEIGHT TOTAL	REMARKS	STEEL GRADE	ADVANCE MILL #
1	1	ONE		14S1		COLUMN		889	889			
		1	1		14S1	HSS6x6x1/4	14 9/4	282	282	S1E	A500B	
		1	1		hss41	HSS6x6x1/4	14 9/4	282	282	S1E	A500B	
		5	5		hss35	HSS2x2x3/16	7 0/4	30	148		A500B	
		2	2		hss29	HSS2x2x3/16	0 9/8	3	7		A500B	
		2	2		hss30	HSS2x2x3/16	0 9/8	3	7		A500B	
		2	2		hss45	HSS2x2x3/16	0 6 15/16	2	5	S1E	A500B	
		2	2		hss44	HSS2x2x3/16	0 6 15/16	2	5	S1E	A500B	
		2	2			POST BALL CAP #45-126-PB	0 7 1/2	30	59	KINGMETALS	A36	
		4	4		p21	PL1x3 1/8	0 7	6	22		A36	
		4	4		f2	FL1/2x6	0 3	2	6		A36	
		1	1		F13	FL3/8x4	1 1 9/16	4	4		A36	
		1	1		P15	PL3/8x3 3/4	1 0 15/16	3	3		A36	
		1	1		P16	PL3/8x3 5/16	1 3	5	5		A36	
		1	1		P9	PL3/8x3 5/16	1 3	5	5		A36	
		2	2		P2	PL3/8x3	6 8	25	51		A36	
		4	4		p1	PL3/16x1 5/8	0 1 5/8	0	1		A36	
1	1	ONE		BSI-DET								
				AILS								
		1	1	BSI-DET								
				AILS								



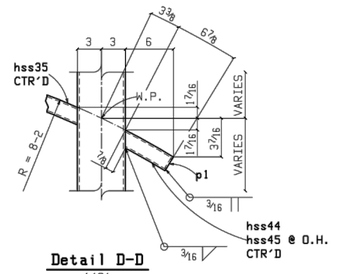
Detail A-A
14S1



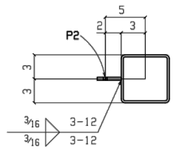
Detail B-B
14S1



Detail C-C
14S1



Detail D-D
14S1



Section E-E
14S1

RP 2-11-19

REV	DATE	DESCRIPTION

ALL WELDS 1/4 FILLET UNLESS NOTED
ALL COPES & ROUNDS
R = 1/2" UNLESS NOTED

STEEL: ALL WF SHAPES - A992 GRADE-50
ALL TUBES - A500 GRADE B
ALL OTHER SHAPES - A36 UNLESS NOTED

OPEN HOLES: 13/16 UNLESS NOTED

SHOP PAINT: SEE PAINT NOTE

FOR FIELD USE AND FABRICATION

PRIOR TO STEEL FABRICATION, STEEL SHALL BE BLAST CLEANED PER SSPC-SP 6 AND GALVANIZED ACCORDING TO ASTM A123. REPAIR ZINC COATING DAMAGED DURING FABRICATION AS SPECIFIED IN STANDARD SPECIFICATION 635.3.4.

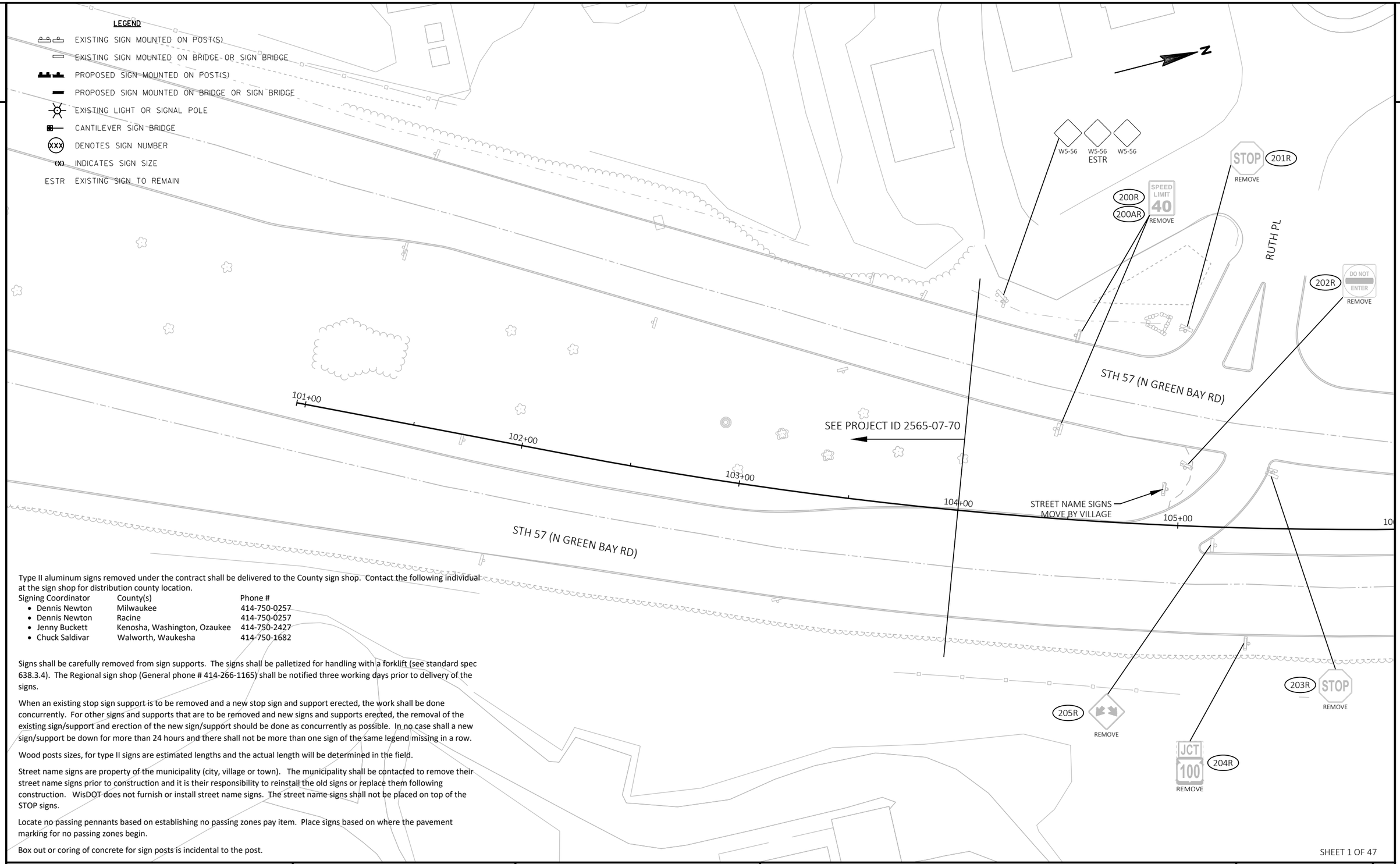
11 VILLAGE WAYFINDING SIGN SUPPORT DETAIL

N.T.S.

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN



Type II aluminum signs removed under the contract shall be delivered to the County sign shop. Contact the following individual at the sign shop for distribution county location.

Signing Coordinator	County(s)	Phone #
• Dennis Newton	Milwaukee	414-750-0257
• Dennis Newton	Racine	414-750-0257
• Jenny Buckett	Kenosha, Washington, Ozaukee	414-750-2427
• Chuck Saldivar	Walworth, Waukesha	414-750-1682

Signs shall be carefully removed from sign supports. The signs shall be palletized for handling with a forklift (see standard spec 638.3.4). The Regional sign shop (General phone # 414-266-1165) shall be notified three working days prior to delivery of the signs.

When an existing stop sign support is to be removed and a new stop sign and support erected, the work shall be done concurrently. For other signs and supports that are to be removed and new signs and supports erected, the removal of the existing sign/support and erection of the new sign/support should be done as concurrently as possible. In no case shall a new sign/support be down for more than 24 hours and there shall not be more than one sign of the same legend missing in a row.

Wood posts sizes, for type II signs are estimated lengths and the actual length will be determined in the field.

Street name signs are property of the municipality (city, village or town). The municipality shall be contacted to remove their street name signs prior to construction and it is their responsibility to reinstall the old signs or replace them following construction. WisDOT does not furnish or install street name signs. The street name signs shall not be placed on top of the STOP signs.

Locate no passing pennants based on establishing no passing zones pay item. Place signs based on where the pavement marking for no passing zones begin.

Box out or coring of concrete for sign posts is incidental to the post.

SHEET 1 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE	SIGNING REMOVAL PLAN	SHEET 212	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023101_RM_16.DWG
LAYOUT NAME - 023101_RM

PLOT DATE : 3/17/2021 9:59 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

RUTH PL

207R 208R
REMOVE

STH 57 (N GREEN BAY RD)

105+00 106+00 107+00 108+00 109+00 110+00 111+00

STH 57 (N GREEN BAY RD)

209R 210R
SPEED LIMIT 40
REMOVE

206R
Brown Deer Rd
8800 N
REMOVE

SHEET 2 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE	SIGNING REMOVAL PLAN	SHEET 213	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023101_RM_16.DWG
LAYOUT NAME - 023102_RM

PLOT DATE : 3/17/2021 9:59 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

N

214R 215R

SPEED LIMIT 40

REMOVE

STH 57 (N GREEN BAY RD)

111+00 112+00 113+00 114+00 115+00 116+00

STH 57 (N GREEN BAY RD)

POST

NO PARKING ANY TIME

211R

REMOVE

100

212R

REMOVE

213R

REMOVE

SHEET 3 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE	SIGNING REMOVAL PLAN	SHEET 214	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023101_RM_16.DWG
LAYOUT NAME - 023103_RM

PLOT DATE : 3/17/2021 9:59 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

STH 100 (W BROWN DEER RD)

497+00

498+00

499+00

500+00

N

221R
REMOVE

220R
REMOVE

222R
REMOVE

STH 57 (N GREEN BAY RD)

117+00

118+00

119+00

120+00

121+00

122+00

STH 57 (N GREEN BAY RD)

216R
REMOVE

219R
REMOVE

223R
REMOVE

217R

218R
REMOVE

STH 100 (W BROWN DEER RD)

SHEET 4 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE	SIGNING REMOVAL PLAN	SHEET 215	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023101_RM_16.DWG
LAYOUT NAME - 023104_RM

PLOT DATE : 3/17/2021 9:59 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

SB OFF RAMP

WRONG WAY
REMOVE

ALTERNATE SOUTH INTERSTATE 43
224R
REMOVE

EAST 100
225R
REMOVE

WEST 100
226R
REMOVE

228R
REMOVE

SOUTH 57
J4-1
229R
REMOVE

REMOVE

N

STH 57 (N GREEN BAY RD)

123+00
124+00
125+00
126+00
127+00
128+00

230R
SPEED LIMIT 40
231R
REMOVE

232R
REMOVE

NB ON RAMP

227R
REMOVE

STH 57 (N GREEN BAY RD)

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

SHEET 5 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE	SIGNING REMOVAL PLAN	SHEET 216	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023101_RM_16.DWG
LAYOUT NAME - 023105_RM
PLOT DATE : 3/17/2021 10:00 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

233R

REMOVE

234R

ALTERNATE SOUTH INTERSTATE 43

REMOVE

WEST 100

235R

REMOVE

236R

Brown Deer Rd
8800 N

N

STH 57 (N GREEN BAY RD)

128+00 129+00 130+00 131+00 132+00 133+00

STH 57 (N GREEN BAY RD)

239R

N Deerwood Dr
NEXT SIGNAL

REMOVE

240R

241R

REMOVE

237R

NORTH 57

REMOVE

ALTERNATE NORTH INTERSTATE 43

238R

REMOVE

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

SHEET 6 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE	SIGNING REMOVAL PLAN	SHEET 217	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023101_RM_16.DWG
LAYOUT NAME - 023106_RM

PLOT DATE : 3/17/2021 10:00 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N DEERWOOD DR

W

INL

245R STOP REMOVE

Brown Deer
BROWN DEER PARK
SCHOOL/LIBRARY CAMPUS
ORIGINAL VILLAGE DISTRICT
VILLAGE GOV'T/PARKS
MOVE
BY OTHERS

242R JCT 100 REMOVE

243R SPEED LIMIT 40 REMOVE

244R

N Green Bay Rd
MOVE
VILLAGE PERMIT SIGN
SEE PERMANENT SIGNING PLAN

246R REMOVE

247R STOP REMOVE

STH 57 (N GREEN BAY RD)

N Deerwood Rd
MOVE
VILLAGE PERMIT SIGN
SEE PERMANENT SIGNING PLAN

134+00 135+00 136+00 137+00 138+00 139+00

248R REMOVE

249R STOP REMOVE

STH 57 (N GREEN BAY RD)

N Green Bay Rd
MOVE
VILLAGE PERMIT SIGN
SEE PERMANENT SIGNING PLAN

252R REMOVE

251R STOP REMOVE

250R ONLY REMOVE

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

SHEET 7 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE	SIGNING REMOVAL PLAN	SHEET 218	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023101_RM_16.DWG
LAYOUT NAME - 023107_RM

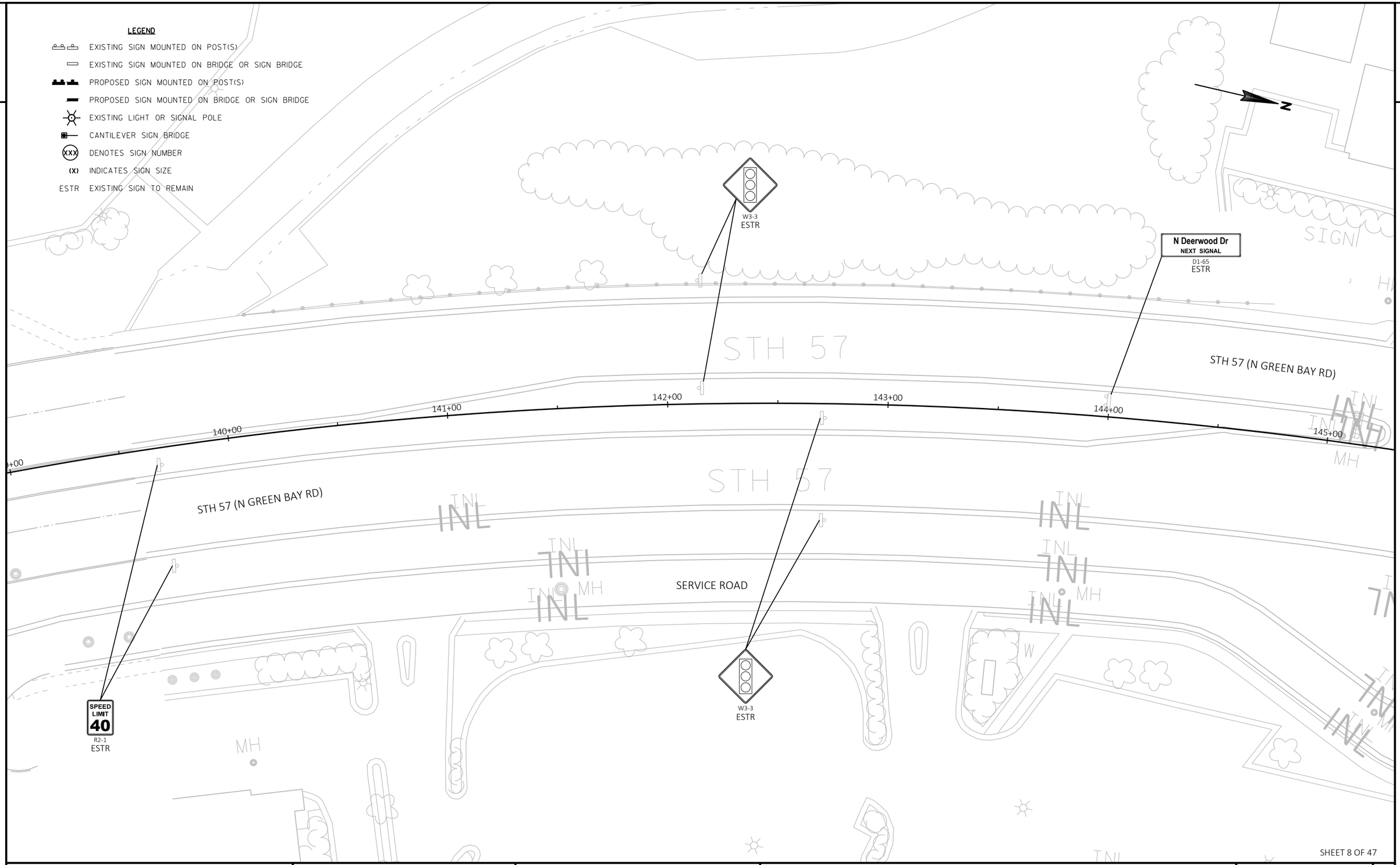
PLOT DATE : 3/17/2021 10:00 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN



SHEET 8 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE	SIGNING REMOVAL PLAN	SHEET 219	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023101_RM_16.DWG
LAYOUT NAME - 023108_RM

PLOT DATE : 3/17/2021 10:00 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

N

W SCHROEDER DR

256R STOP REMOVE

257R

W Schroeder Dr
MOVE
VILLAGE PERMIT SIGN
SEE PERMANENT SIGNING PLAN

SPEED LIMIT 40
R2-1
ESTR

STH 57 (N GREEN BAY RD)

REMOVE

255R REMOVE

R4-7
ESTR

145+00 146+00 147+00 148+00 149+00 150+00 151+00

NO PARKING ANY TIME
R7-1D
ESTR

STH 57 (N GREEN BAY RD)

N Schroeder Dr
NEXT SIGNAL
D1-65
ESTR

BEGIN LEFT TURN LANE
R3-20L
ESTR

WRONG WAY
R5-1A
ESTR

253R STOP REMOVE

254R STOP REMOVE

N Green Bay Rd
MOVE
VILLAGE PERMIT SIGN
SEE PERMANENT SIGNING PLAN

W SCHROEDER DR

SHEET 9 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE	SIGNING REMOVAL PLAN	SHEET 220	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023101_RM_16.DWG
LAYOUT NAME - 023109_RM

PLOT DATE : 3/17/2021 10:00 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

N

W SCHROEDER DR

SIGN

BUS STOP
PROPERTY OF MCTS

N Green Bay Rd
MOVE
VILLAGE PERMIT SIGN
SEE PERMANENT SIGNING PLAN

WRONG WAY
R5-1A
ESTR

NO PARKING ANY TIME
R7-1D
ESTR

BEGIN LEFT TURN LANE
R3-20L
ESTR

BUS STOP
PROPERTY OF MCTS

W Schroeder Dr
NEXT SIGNAL
D1-65
ESTR

258R
DO NOT ENTER
REMOVE

STOP
REMOVE

STH 57 (N GREEN BAY RD)

151+00 152+00 153+00 154+00 155+00 156+00

STH 57 (N GREEN BAY RD)

SPEED LIMIT 40
R2-1
ESTR

NO PARKING ANY TIME
R7-1D
ESTR

W Schroeder Dr
MOVE
VILLAGE PERMIT SIGN
SEE PERMANENT SIGNING PLAN

W5-56 W5-56 W5-56
ESTR

SERVICE ROAD

BUS STOP
PROPERTY OF MCTS

STOP
R1-1
MOVE
SEE PERMANENT SIGNING PLAN

NO PARKING ANY TIME
R7-1D
ESTR

W SCHROEDER DR

SHEET 10 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE	SIGNING REMOVAL PLAN	SHEET 221	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023101_RM_16.DWG
LAYOUT NAME - 023110_RM

PLOT DATE : 3/17/2021 10:00 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

W DEER RUN DR

259R STOP REMOVE

W3-3 ESTR

STH 57 (N GREEN BAY RD)

157+00 158+00 159+00 160+00 161+00 162+00

R4-7 ESTR

261R REMOVE

SERVICE ROAD

260R STOP REMOVE

R1-1 ESTR

W CHERRYWOOD LN

262R STOP REMOVE

SHEET 11 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE	SIGNING REMOVAL PLAN	SHEET 222	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023101_RM_16.DWG
LAYOUT NAME - 023111_RM

PLOT DATE : 3/17/2021 10:00 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

STOP
R1-1
ESTR

263R

SPEED LIMIT 40
REMOVE

SPEED LIMIT 40
R2-1
ESTR

SERVICE ROAD

STH 57 (N GREEN BAY RD)

163+00 164+00 165+00 166+00 167+00 168+00

STH 57 (N GREEN BAY RD)

SERVICE ROAD

SPEED LIMIT 40
R2-1
ESTR

STOP
REMOVE

264R

SHEET 12 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE	SIGNING REMOVAL PLAN	SHEET 223	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023101_RM_16.DWG
LAYOUT NAME - 023112_RM

PLOT DATE : 3/17/2021 10:00 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

I55-56
ESTR

267R
TREE CITY
REMOVE
ILLEGAL SIGN

LOCAL SIGN
PROPERTY OF VILLAGE

NO OVERNIGHT PARKING BETWEEN 2AM AND 6AM
NO PARKING DURING SNOW EMERGENCY
FASTEN YOUR SEAT BELTS
ESTR
PROPERTY OF VILLAGE

268R
STOP
REMOVE

SPEED LIMIT 40
R2-1
ESTR

Milwaukee Co
I2-2
ESTR

Brown Deer
POPULATION 11,999
I2-3
ESTR

W COUNTY LINE RD

STH 57 (N CEDARBURG RD)

174+00

173+00

169+00

170+00

171+00

172+00

STH 57 (N GREENBAY RD)

STREET NAME SIGNS
REMOVE BY VILLAGE
DO NOT PLACE ON WISDOT SIGN POST

269R
270R
REMOVE

STREET NAME SIGNS
REMOVE BY VILLAGE
DO NOT PLACE ON WISDOT SIGN POST

265R
266R
REMOVE

W6-2
ESTR

Ozaukee Co
I2-2

Mequon
POPULATION 24159
I2-3
MOVE
SEE PERMANENT SIGNING PLAN

STOP
SCHOOL BUS FLASHING RED LIGHTS
R59-51
ESTR

NO ENGINE BRAKING
EXCEPT IN EMERGENCY
MOVE
SEE PERMANENT SIGNING PLAN

STOP
271R
REMOVE

W COUNTY LINE RD

SHEET 13 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE/OZAUKEE	SIGNING REMOVAL PLAN	SHEET 224	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023101_RM_16.DWG
LAYOUT NAME - 023113_RM
PLOT DATE : 3/17/2021 10:00 AM
PLOT BY : MARTENS, KAREN L
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

W HIAWATHA DR

MH

STOP
R1-1
ESTR

REMOVE

272R
REMOVE

REMOVE

174+00 175+00 176+00 177+00 178+00 179+00 180+00

STH 57 (N CEDARBURG RD)

STH 57

STH 57 (N CEDARBURG RD)

SIGN W

SIGN

I55-56
ESTR

SPEED LIMIT 45
R2-1
ESTR

TREE CITY
273R
REMOVE
ILLEGAL SIGN

DO NOT ENTER
R5-1
ESTR

W1-2L
ESTR

NO PARKING
ON CITY OF MEQUON STREETS AT ANY TIME UNLESS AUTHORIZED
MOVE
SEE PERMANENT SIGNING PLAN

SHEET 14 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: OZAUKEE	SIGNING REMOVAL PLAN	SHEET 225	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023101_RM_16.DWG
LAYOUT NAME - 023114_RM

PLOT DATE : 3/17/2021 10:00 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

N

W6-1
ESTR

SPEED LIMIT 45
R2-1
ESTR

SPEED LIMIT 45
R2-1
ESTR

W

SIGN

STH 57 (N CEDARBURG RD)

180+00 181+00 182+00 183+00 184+00 185+00 186+

STH 57 (N CEDARBURG RD)

SHEET 15 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: OZAUKEE	SIGNING REMOVAL PLAN	SHEET 226	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023101_RM_16.DWG
LAYOUT NAME - 023115_RM

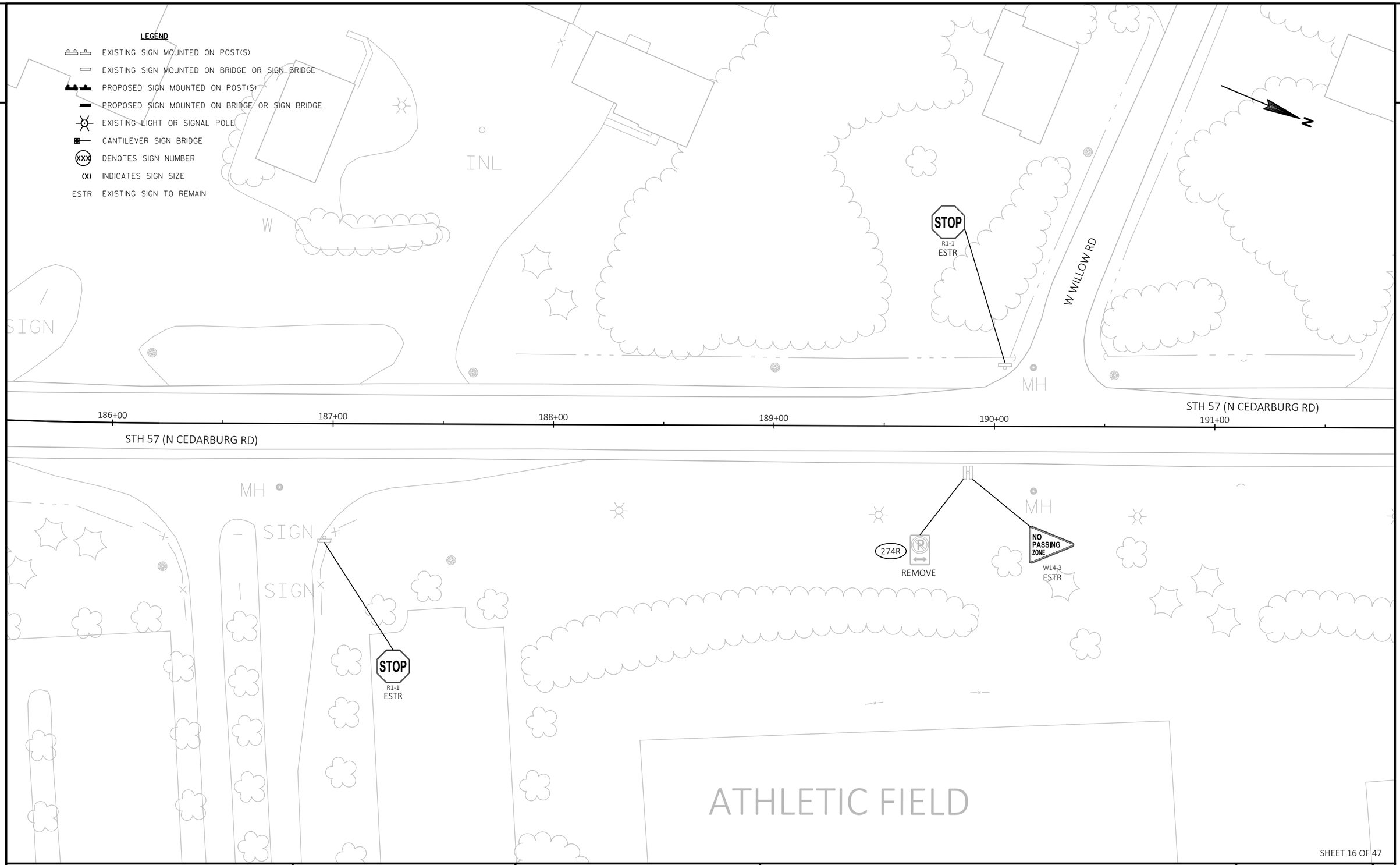
PLOT DATE : 3/17/2021 10:00 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN



2

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

W1-2R
ESTR

STOP
R1-1
ESTR

W ELMDALE RD

N

W

MH

192+00 193+00 194+00 195+00 196+00 197+00

STH 57 (N CEDARBURG RD)

STH 57 (N CEDARBURG RD)

STH

BLEACHERS

SIGN

W

ATHLETIC FIELD

SHEET 17 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: OZAUKEE	SIGNING REMOVAL PLAN	SHEET 228	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023101_RM_16.DWG
LAYOUT NAME - 023117_RM

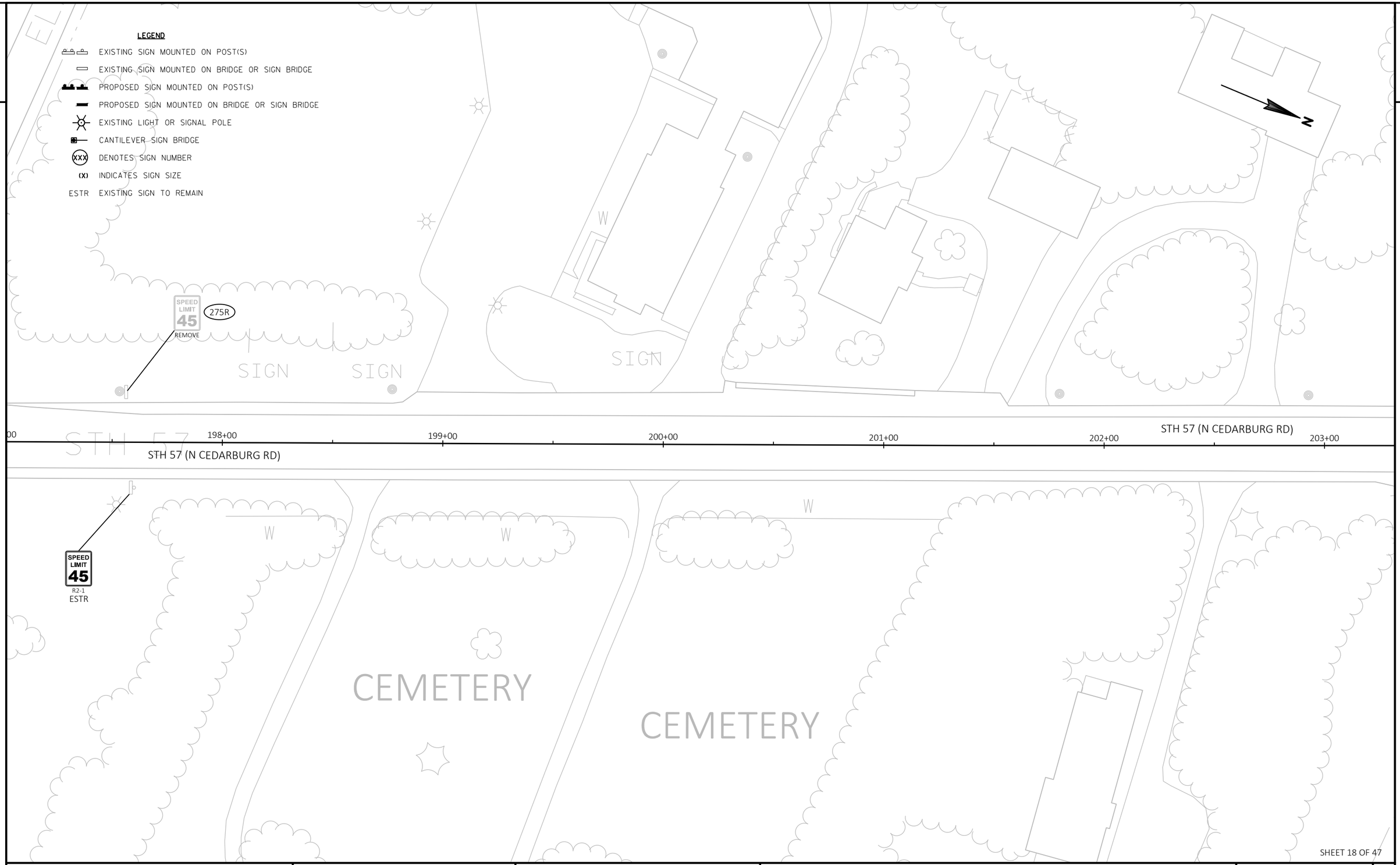
PLOT DATE : 3/17/2021 10:01 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN



SHEET 18 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: OZAUKEE	SIGNING REMOVAL PLAN	SHEET 229	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023101_RM_16.DWG
LAYOUT NAME - 023118_RM

PLOT DATE : 3/17/2021 10:01 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

W5-52L
ESTR

W5-52R
ESTR

STOP
R1-1
ESTR

W KATHLEEN LN

N

203+00 204+00 205+00 206+00 207+00 208+00 209+00

STH 57 (N CEDARBURG RD)

STH 57 (N CEDARBURG RD)

W5-52R
ESTR

W5-52L
ESTR

SHEET 19 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: OZAUKEE	SIGNING REMOVAL PLAN	SHEET 230	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023101_RM_16.DWG
LAYOUT NAME - 023119_RM

PLOT DATE : 3/17/2021 10:01 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

SPEED LIMIT 45
R2-1
ESTR

STOP
R1-1
ESTR

W WESTFIELD RD

N

209+00 210+00 211+00 212+00 213+00 214+00

STH 57 (N CEDARBURG RD)

STH 57 (N CEDARBURG RD)

SPEED LIMIT 45
R2-1
ESTR

SIGN

SHEET 20 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: OZAUKEE	SIGNING REMOVAL PLAN	SHEET 231	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023101_RM_16.DWG
LAYOUT NAME - 023120_RM

PLOT DATE : 3/17/2021 10:01 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

NO SIGNS THIS SHEET

N

215+00 216+00 217+00 218+00 219+00 220+00

STH 57 (N CEDARBURG RD)

STH 57 (N CEDARBURG RD)

SIGN

SHEET 21 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: OZAUKEE	SIGNING REMOVAL PLAN	SHEET 232	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023101_RM_16.DWG
LAYOUT NAME - 023121_RM

PLOT DATE : 3/17/2021 10:01 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

N

NO PASSING ZONE
W14-3
ESTR

SPEED LIMIT 45
R2-1
ESTR

POST

POST

POST

STH 57 (N CEDARBURG RD)

220+00 221+00 222+00 223+00 224+00 225+00 226+00

STH 57 (N CEDARBURG RD)

POST

Donges Bay Rd
276R
REMOVE

277R
REMOVE

SHEET 22 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: OZAUKEE	SIGNING REMOVAL PLAN	SHEET 233	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023101_RM_16.DWG
LAYOUT NAME - 023122_RM

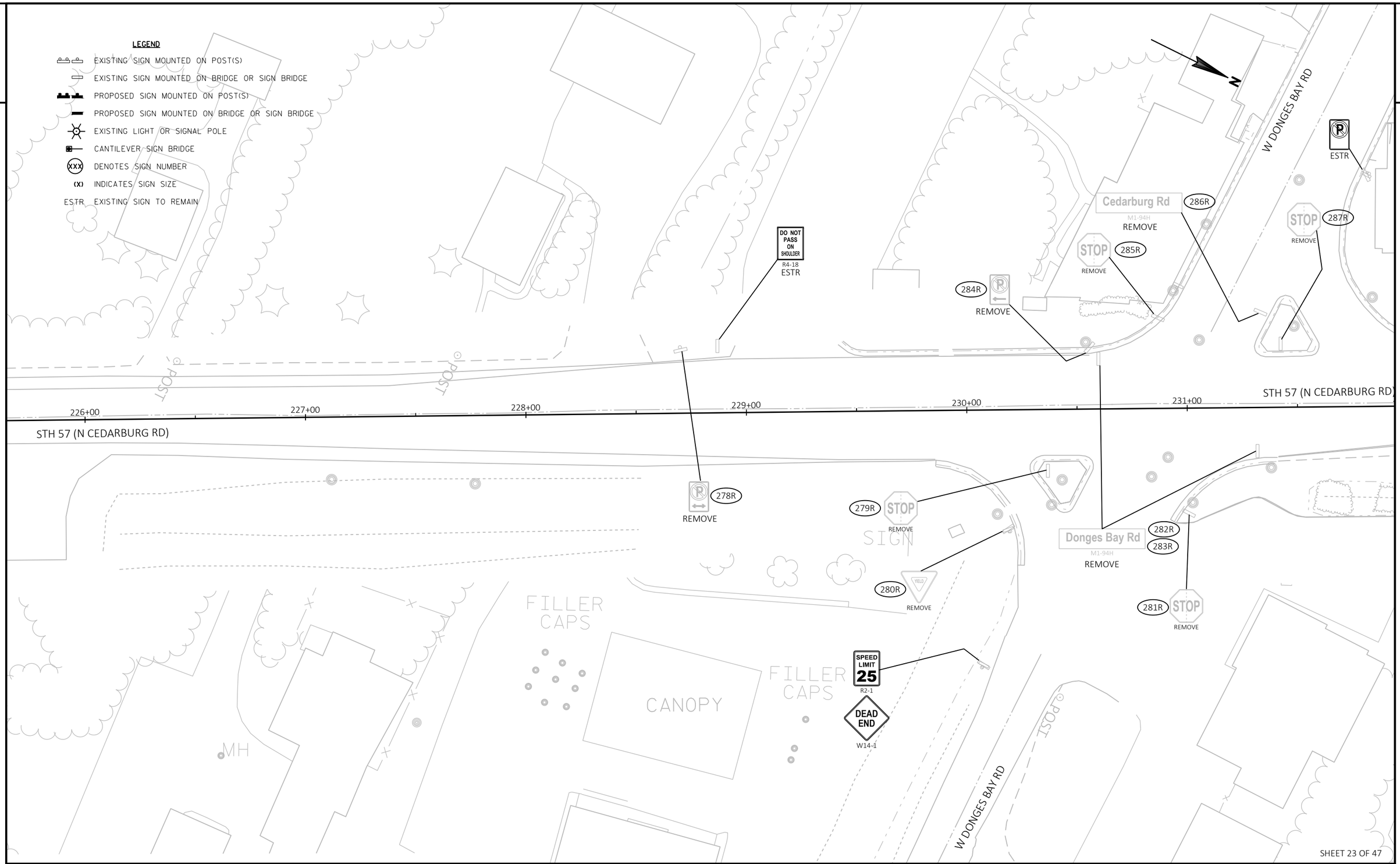
PLOT DATE : 3/17/2021 10:01 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN



SHEET 23 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: OZAUKEE	SIGNING REMOVAL PLAN	SHEET 234	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023101_RM_16.DWG
LAYOUT NAME - 023123_RM

PLOT DATE : 3/17/2021 10:01 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

W DONGES BAY RD

288R

REMOVE

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

N

STH 57 (N CEDARBURG RD)

232+00 233+00 234+00 235+00 236+00 237+00

STH 57 (N CEDARBURG RD)

POST SIGN POST

289R

SPEED LIMIT 45

REMOVE

POST POST

SHEET 24 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: OZAUKEE	SIGNING REMOVAL PLAN	SHEET 235	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023101_RM_16.DWG
LAYOUT NAME - 023124_RM

PLOT DATE : 3/17/2021 10:01 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

290R
291R
REMOVE

STOP
R1-1
ESTR

BAYBERRY PKWY

R4-7
ESTR

SIGN

POST

POST

POST

STH 57 (N CEDARBURG RD)

237+00 238+00 239+00 240+00 241+00 242+00 243

STH 57 (N CEDARBURG RD)

NO PASSING ZONE
W14-3
ESTR

W

2

SHEET 25 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: OZAUKEE	SIGNING REMOVAL PLAN	SHEET 236	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023101_RM_16.DWG
LAYOUT NAME - 023125_RM

PLOT DATE : 3/17/2021 10:01 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

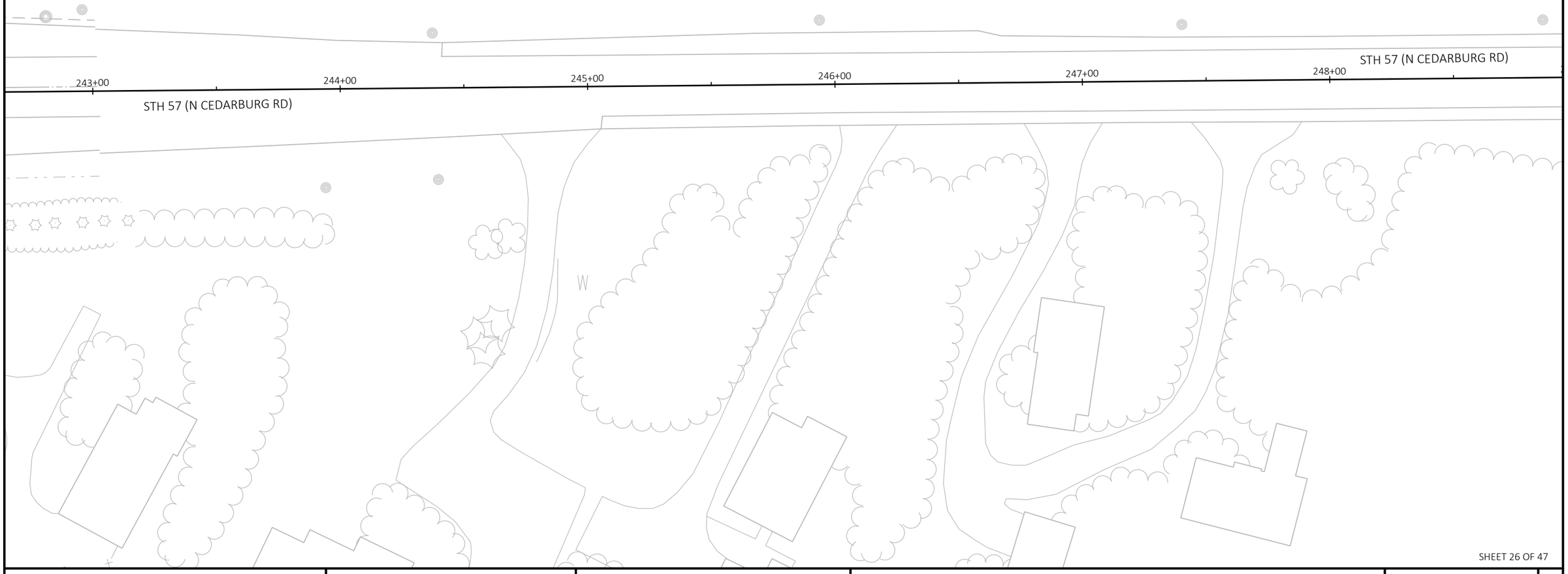
WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

NO SIGNS THIS SHEET



2

SHEET 26 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: OZAUKEE	SIGNING REMOVAL PLAN	SHEET 237	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023126_RM_16.DWG
LAYOUT NAME - 023126_RM

PLOT DATE : 3/17/2021 10:02 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

N

SPEED LIMIT 45
R2-1
ESTR

0 249+00 250+00 251+00 252+00 253+00 254+00

STH 57

STH 57 (N CEDARBURG RD)

STH 57 (N CEDARBURG RD)

SHEET 27 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: OZAUKEE	SIGNING REMOVAL PLAN	SHEET 238	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023126_RM_16.DWG
LAYOUT NAME - 023127_RM

PLOT DATE : 3/17/2021 10:02 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

NO SIGNS THIS SHEET

N

STH 57 (N CEDARBURG RD)

254+00 255+00 256+00 257+00 258+00 259+00

STH 57 (N CEDARBURG RD)

W

2

SHEET 28 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: OZAUKEE	SIGNING REMOVAL PLAN	SHEET 239	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023126_RM_16.DWG
LAYOUT NAME - 023128_RM

PLOT DATE : 3/17/2021 10:03 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

W SHERWOOD DR

STOP
R1-1
ESTR

STH 57 (N CEDARBURG RD)

260+00 261+00 262+00 263+00 264+00 265+00

STH 57 (N CEDARBURG RD)

SPEED LIMIT 30
W3-5
ESTR

SHEET 29 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: OZAUKEE	SIGNING REMOVAL PLAN	SHEET 240	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023126_RM_16.DWG
LAYOUT NAME - 023129_RM

PLOT DATE : 3/17/2021 10:03 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

SPEED LIMIT 45
R2-1
ESTR

SPEED LIMIT 30
R2-1
ESTR

MH
W
W
U/C
SIGN

265+00 266+00 267+00 268+00 269+00 270+00

STH 57 (N CEDARBURG RD)

STH 57 (N CEDARBURG RD)

2

SHEET 30 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: OZAUKEE	SIGNING REMOVAL PLAN	SHEET 241	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023126_RM_16.DWG
LAYOUT NAME - 023130_RM

PLOT DATE : 3/17/2021 10:03 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN



SHEET 31 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: OZAUKEE	SIGNING REMOVAL PLAN	SHEET 242	E

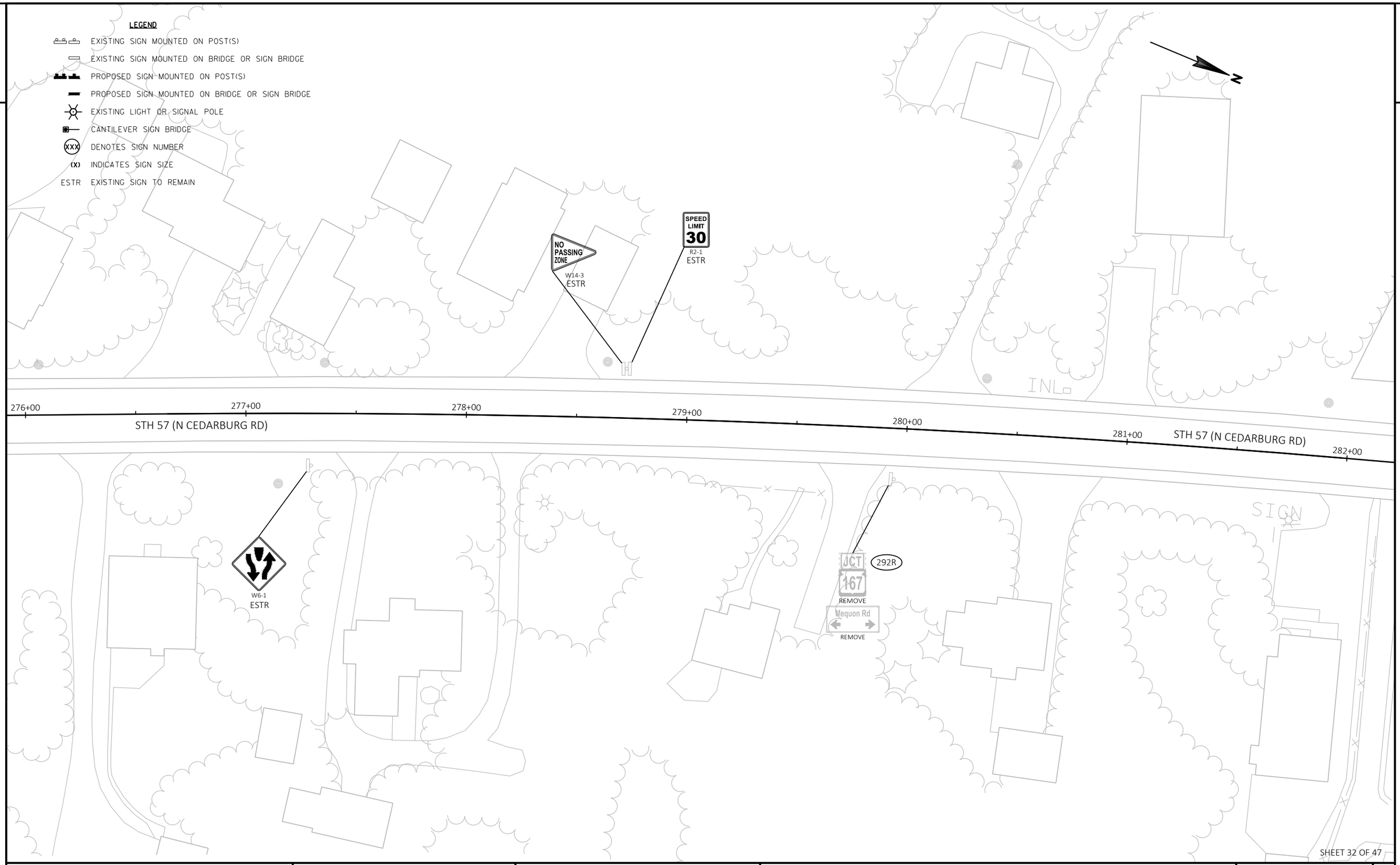
FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023126_RM_16.DWG
LAYOUT NAME - 023131_RM

PLOT DATE : 3/17/2021 10:03 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN



SHEET 32 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: OZAUKEE	SIGNING REMOVAL PLAN	SHEET 243	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023126_RM_16.DWG
LAYOUT NAME - 023132_RM

PLOT DATE : 3/17/2021 10:03 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

W LUCERNE CT

DO NOT ENTER
R5-1
ESTR

ADOPT A HIGHWAY
I55-56
ESTR

ALTERNATE SOUTH INTERSTATE 43
J2-1
ESTR

STOP ON SCHOOL BUS FLASHING RED LIGHTS
R59-51
ESTR

SPEED LIMIT 30
R2-1
ESTR

W4-2R
ESTR

SIGN

MH

STH 57 (N CEDARBURD RD)

282+00 283+00 284+00 285+00 286+00 287+00

STH 57 (N CEDARBURG RD)

WEST NORTH EAST 167 57 167
J2-3
ESTR

H
D9-2
ESTR

ALTERNATE NORTH INTERSTATE 43
J2-1
ESTR

R4-7
W5-56
ESTR

BEGIN LEFT TURN LANE
R3-20L
ESTR

SIGN

SHEET 33 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: OZAUKEE	SIGNING REMOVAL PLAN	SHEET 244 E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023126_RM_16.DWG
LAYOUT NAME - 023133_RM

PLOT DATE : 3/17/2021 10:03 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

STH 57 (N CEDARBURD RD)

STH 167 (W MEQUON RD)

287+00 288+00 289+00

WEST 167 J3-1 ESTR

SOUTH 57 J4-1 ESTR

YIELD R1-2 ESTR

W12-1D ESTR

STOP R1-1F ESTR

DO NOT ENTER R5-1 ESTR

ONE WAY R6-2L ESTR

Cedarburg Rd ESTR

R4-7 ESTR

Mequon Rd ESTR

NORTH EAST 57 167 J3-2 ESTR

ONLY R3-5L ESTR

CANOPY

FILLER CAPS

SIGN

WALLS

INL

MH

STH 57 (N CEDARBURD RD)

SHEET 34 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: OZAUKEE	SIGNING REMOVAL PLAN	SHEET 245	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023126_RM_16.DWG
LAYOUT NAME - 023134_RM

PLOT DATE : 3/17/2021 10:03 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

NO SIGNS THIS SHEET

CANOPY
INL
FILLER CAPS
W
SIGN
SIGN
SIGN
SIGN
INL
MH
CEDARBURG RD.
STH 57 (N CEDARBURD RD)
MH
STH 57 (N CEDARBURD RD)

SHEET 35 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: OZAUKEE	SIGNING REMOVAL PLAN	SHEET 246	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023126_RM_16.DWG
LAYOUT NAME - 023135_RM

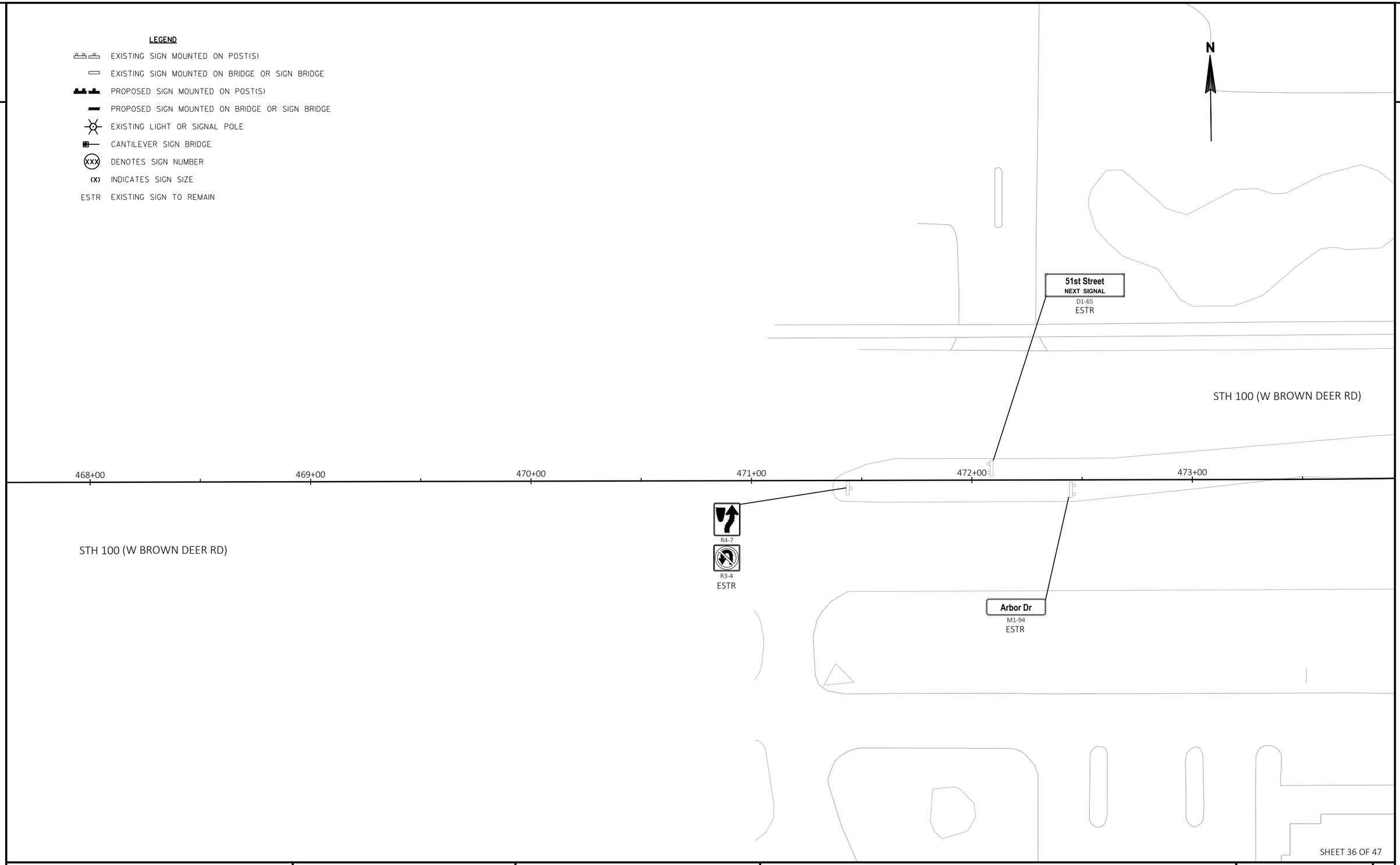
PLOT DATE : 3/17/2021 10:03 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN



SHEET 36 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE	SIGNING REMOVAL PLAN	SHEET 247	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023126_RM_16.DWG
LAYOUT NAME - 023136_RM

PLOT DATE : 3/17/2021 10:03 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

N ARBON DR

STH 100 (W BROWN DEER RD)

474+00 475+00 476+00 477+00 478+00 479+00

W3-3 ESTR

SPEED LIMIT 40 R2-1 ESTR

NO PARKING ANY TIME R7-1D ESTR

293R STOP REMOVE

ONE WAY R6-2L ESTR

DO NOT ENTER R5-1

W11-2 W16-7L

W11-2 W16-7R

R4-7

R3-4 6AM-9AM 3PM-6PM

BUS STOP PROPERTY OF MCTS

W11-2 W16-7R ESTR

W11-2 W16-7L ESTR

DO NOT ENTER R5-1 ESTR

ONE WAY R6-2L ESTR

STOP 294R REMOVE

NO PARKING ANY TIME R7-1D ESTR

295R SPEED LIMIT 40 REMOVE

SPEED LIMIT 40 R2-1 ESTR

296R REMOVE

W10-1 ESTR

N

STH 100 (W BROWN DEER RD)

2

SHEET 37 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE	SIGNING REMOVAL PLAN	SHEET 248	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023126_RM_16.DWG
LAYOUT NAME - 023137_RM

PLOT DATE : 3/17/2021 10:03 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

N

STH 100 (W BROWN DEER RD)

297R
Arbon Dr
REMOVE

298R
REMOVE

299R
299AR
REMOVE
AHEAD
REMOVE

300R
REMOVE

STOP
R1-1
PRIVATE SIGN
MOVE BY
OWNER

479+00
480+00
481+00
482+00
483+00
484+00

STH 100 (W BROWN DEER RD)

301R
REMOVE

302R
303R
REMOVE
AHEAD
REMOVE

SHEET 38 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE	SIGNING REMOVAL PLAN	SHEET 249	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023126_RM_16.DWG
LAYOUT NAME - 023138_RM

PLOT DATE : 3/17/2021 10:03 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

N

307R STOP REMOVE

308R REMOVE REMOVE

309R STOP REMOVE

306R R R REMOVE

304R 305R SPEED LIMIT 40 REMOVE

N DEERBROOK TRAIL

310R REMOVE REMOVE

313R R R REMOVE

314R 315R R R REMOVE

STH 100 (W BROWN DEER RD)

311R NO MOTOR VEHICLES REMOVE

485+00 486+00 487+00 488+00 489+00 490+00

312R REMOVE

STREET NAME SIGN
MOVE BY VILLAGE
DO NOT PLACE ON WISDOT SIGN POST

STH 100 (W BROWN DEER RD)

323R SPEED LIMIT 40 REMOVE

322R REMOVE REMOVE

321R STOP REMOVE

OAK LEAF TRAIL
MOVE
SEE PERMANENT
SIGNING PLAN

N DEERBROOK TRAIL

319R JCT 57 REMOVE

Green Bay Rd REMOVE

320R STOP REMOVE

317R 318R REMOVE

316R RIGHT LANE MUST TURN RIGHT REMOVE

SHEET 39 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE	SIGNING REMOVAL PLAN	SHEET 250	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023126_RM_16.DWG
LAYOUT NAME - 023139_RM

PLOT DATE : 3/17/2021 10:04 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

STH 100 (W BROWN DEER RD)

N DEERWOOD DR

328R
STOP
REMOVE

324R
325R
REMOVE
AHEAD
REMOVE

326R
327R
SPEED LIMIT 40
REMOVE

329R
ONE WAY
REMOVE

REMOVE

ADOPT A HIGHWAY
I55-56
MOVE
SEE PERMANENT SIGNING PLAN

337R
NO PARKING ANY TIME
REMOVE

338R
WEST 100
REMOVE

330R
REMOVE

490+00
491+00
492+00
493+00
494+00
495+00
496+00

STREET NAME SIGNS
MOVE BY VILLAGE

DO NOT ENTER
REMOVE

331R
REMOVE

RIGHT LANE MUST TURN RIGHT
REMOVE
334R

SOUTH 57
REMOVE
335R

ALTERNATE EAST INTERSTATE 43
REMOVE
336R

STOP
REMOVE
332R

ONLY
REMOVE
333R

SOUTH 57
339R
REMOVE

SIGN

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

SHEET 40 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE	SIGNING REMOVAL PLAN	SHEET 251 E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023126_RM_16.DWG
LAYOUT NAME - 023140_RM

PLOT DATE : 3/17/2021 10:04 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

N

STH 57 (N GREEN BAY RD)

STH 100 (W BROWN DEER RD)

122+00

121+00

120+00

119+00

496+00 497+00 498+00 499+00 500+00 501+00

342R DO NOT ENTER REMOVE
343R STOP REMOVE
344R STOP REMOVE
345R REMOVE
346R SOUTH 57 REMOVE
347R ALTERNATE SOUTH INTERSTATE 43 REMOVE
348R REMOVE
341R REMOVE
349R REMOVE
340R REMOVE
350R ONE WAY REMOVE
351R REMOVE
352R NORTH EAST 57 100 REMOVE
353R SOUTH 57 REMOVE
354R ALTERNATE SOUTH INTERSTATE 43 REMOVE
355R REMOVE
356R ONE WAY REMOVE
357R
358R REMOVE
359R NORTH 57 REMOVE
360R REMOVE
361R
Kildeer Ct NEXT SIGNAL REMOVE
362R LEFT TURN LANE REMOVE
371R REMOVE
370R WEST 100 REMOVE
369R ONLY REMOVE
367R STOP REMOVE
366R EAST 100 REMOVE
368R REMOVE
365R STOP REMOVE
364R ALTERNATE NORTH INTERSTATE 43 REMOVE
363R EAST 100 REMOVE

SHEET 41 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE	SIGNING REMOVAL PLAN	SHEET 252	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023126_RM_16.DWG
LAYOUT NAME - 023141_RM

PLOT DATE : 3/17/2021 10:04 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

N

N KILDEER CT

STH 100 (W BROWN DEER RD)

372R — ALTERNATE NORTH 41 / NORTH 41 / 45

373R — Green Bay Rd — REMOVE

374R — ALTERNATE SOUTH 43 — USE LEFT LANE — REMOVE

375R — ALTERNATE NORTH 43 — REMOVE

376R — NORTH 57 — REMOVE

377R — NO PARKING ANY TIME — REMOVE

378R / 379R — SPEED LIMIT 40 — REMOVE

380R — RIGHT LANE MUST TURN RIGHT — REMOVE

N Kildeer Ct — M1-94H — ESTR

ONE WAY — R6-2L — ESTR

STOP — R1-1F — ESTR

R4-7 — ESTR

LEFT TURN YIELD ON FLASHING YELLOW ARROW — R10-50L — ESTR

STOP — R1-1F — ESTR

DO NOT ENTER — R5-1 — ESTR

382R — BEGIN LEFT TURN LANE — REMOVE

STOP — 381R — REMOVE

DO NOT ENTER — REMOVE

384R — NO PARKING ANY TIME — REMOVE

I55-56 — ADOPT A HIGHWAY — MOVE — SEE PERMANENT SIGNING PLAN

383R — ALTERNATE 43 — REMOVE

502+00 503+00 504+00 505+00 506+00 507+00

SHEET 42 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE	SIGNING REMOVAL PLAN	SHEET 253	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023126_RM_16.DWG
LAYOUT NAME - 023142_RM

PLOT DATE : 3/17/2021 10:04 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

N

INL

N KILDEER CT

W

W Brown Deer Rd
ESTR

LEFT TURN YIELD ON FLASHING YELLOW ARROW
R10-50L
ESTR

DO NOT ENTER
R5-1
ESTR

STOP
R1-1F
ESTR

R4-7
ESTR

LEFT TURN LANE
R3-56L
ESTR

Brown Deer
VILLAGE GOVERNMENT
ORIGINAL VILLAGE DISTRICT
VILLAGE PARK/SWIM POND
SCHOOL/LIBRARY CAMPUS
ESTR
PROPERTY OF
VILLAGE

NO PARKING ANY TIME
R7-1D
ESTR

LEFT TURN LANE
R3-55L
ESTR

STH 100 (W BROWN DEER RD)

507+00 508+00 509+00 510+00 511+00 512+00

W Brown Deer Rd
MOVE
VILLAGE PERMIT SIGN
SEE PERMANENT SIGNING PLAN

LEFT TURN YIELD ON FLASHING YELLOW ARROW
385R
REMOVE

N Kildeer Ct
M1-94H
ESTR

STH 100 (W BROWN DEER RD)

ONE WAY
R6-2L
ESTR

NO PARKING ANY TIME
R7-1D
ESTR

SPEED LIMIT 45
R2-1
ESTR

STOP
R1-1F
ESTR

N KILDEER CT

NO PARKING ANY TIME
R7-1D
ESTR

SHEET 43 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE	SIGNING REMOVAL PLAN	SHEET 254	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023126_RM_16.DWG
LAYOUT NAME - 023143_RM

PLOT DATE : 3/17/2021 10:04 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

N

MILWAUKEE RIVER

N UPPER RIVER RD

MH

STOP
R1-1
ESTR

STREET NAME SIGNS

VILLAGE OF BROWN DEER WELCOME SIGN
ESTR
PROPERTY OF VILLAGE

W3-3
ESTR

Kildeer Ct
NEXT SIGNAL
D1-65
ESTR

STH 100 (W BROWN DEER RD)

R4-7
ESTR

512+00 513+00 514+00 515+00 516+00 517+00

STH 100 (W BROWN DEER RD)

LOCAL SIGNS
ESTR
PROPERTY OF VILLAGE

MILWAUKEE RIVER

SPEED LIMIT 45
R2-1
ESTR

DO NOT ENTER
R5-1
ESTR

MH

SHEET 44 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE	SIGNING REMOVAL PLAN	SHEET 255	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023126_RM_16.DWG
LAYOUT NAME - 023144_RM

PLOT DATE : 3/17/2021 10:04 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

N

N UPPER RIVER RD

DO NOT ENTER
R5-1
ESTR

STH 100 (W BROWN DEER RD)

518+00 519+00 520+00 521+00 522+00 523+00

REMOVE
386R

ONE WAY
R6-2L
ESTR

NO PARKING ANY TIME
R7-1D
ESTR

387R 388R
REMOVE

NEXT 1 MILES
REMOVE

SHEET 45 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE	SIGNING REMOVAL PLAN	SHEET 256	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023126_RM_16.DWG
LAYOUT NAME - 023145_RM

PLOT DATE : 3/17/2021 10:04 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

N

MH

STH 100 (W BROWN DEER RD)

523+00 524+00 525+00 526+00 527+00 528+00

STH 100 (W BROWN DEER RD)

NO PARKING ANY TIME
R7-1D
ESTR

SPEED LIMIT 45
R2-1
ESTR

SHEET 46 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE	SIGNING REMOVAL PLAN	SHEET 257	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023126_RM_16.DWG
LAYOUT NAME - 023146_RM

PLOT DATE : 3/17/2021 10:04 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

N

SPEED LIMIT 45
R2-1
ESTR

R4-7
ESTR

MH

MH

INL

STH 100 (W BROWN DEER RD)

528+00 529+00 530+00 531+00 532+00 533+00 534+00

STH 100 (W BROWN DEER RD)

INL

INL

INL

2

SHEET 47 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE	SIGNING REMOVAL PLAN	SHEET 258	E

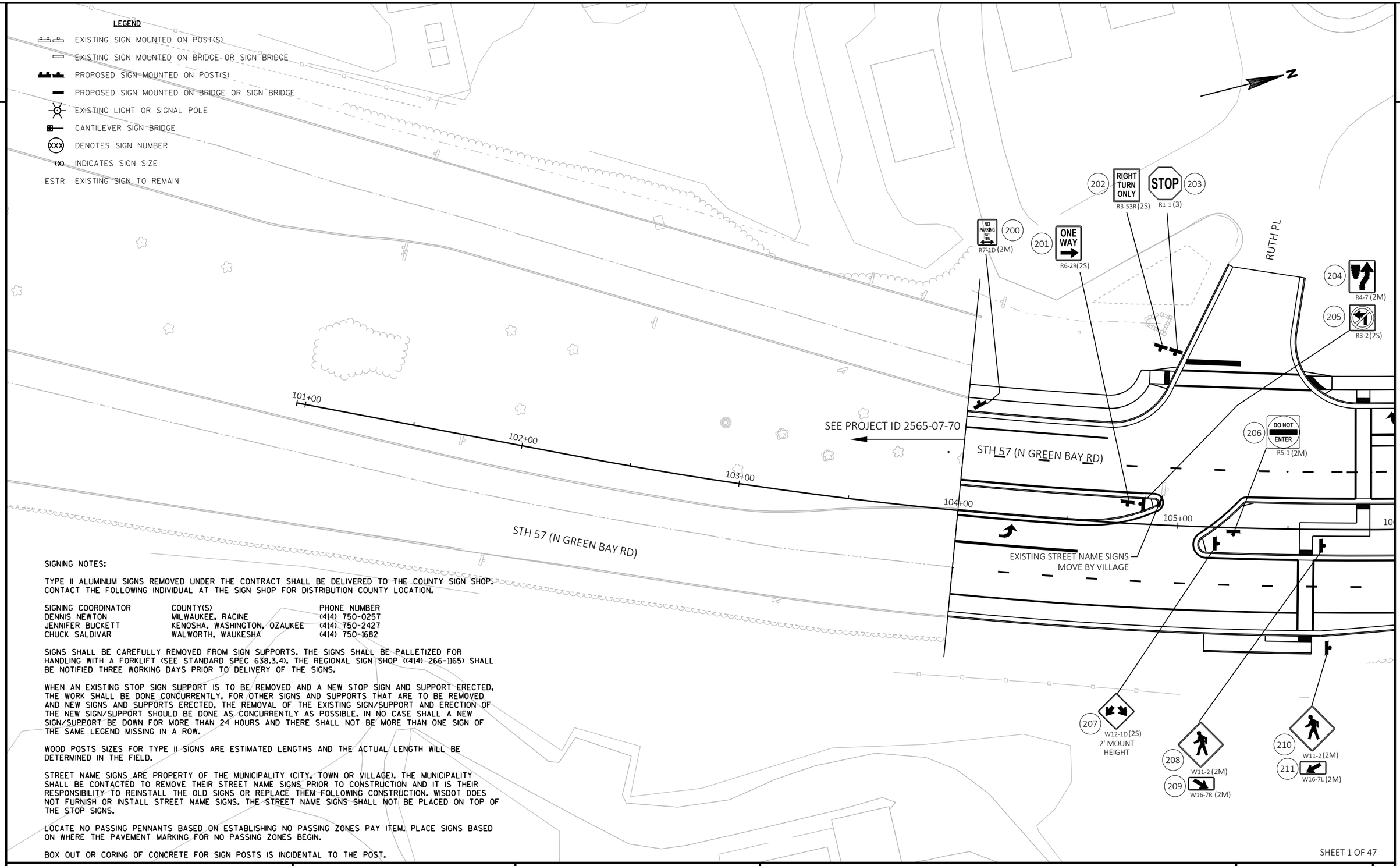
FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023126_RM_16.DWG
LAYOUT NAME - 023147_RM

PLOT DATE : 3/17/2021 10:04 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN



SIGNING NOTES:

TYPE II ALUMINUM SIGNS REMOVED UNDER THE CONTRACT SHALL BE DELIVERED TO THE COUNTY SIGN SHOP. CONTACT THE FOLLOWING INDIVIDUAL AT THE SIGN SHOP FOR DISTRIBUTION COUNTY LOCATION.

SIGNING COORDINATOR	COUNTY(S)	PHONE NUMBER
DENNIS NEWTON	MILWAUKEE, RACINE	(414) 750-0257
JENNIFER BUCKETT	KENOSHA, WASHINGTON, OZAUKEE	(414) 750-2427
CHUCK SALDIVAR	WALWORTH, WAUKESHA	(414) 750-1682

SIGNS SHALL BE CAREFULLY REMOVED FROM SIGN SUPPORTS. THE SIGNS SHALL BE PALLETIZED FOR HANDLING WITH A FORKLIFT (SEE STANDARD SPEC 638.3.4). THE REGIONAL SIGN SHOP ((414) 266-1165) SHALL BE NOTIFIED THREE WORKING DAYS PRIOR TO DELIVERY OF THE SIGNS.

WHEN AN EXISTING STOP SIGN SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED, THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

WOOD POSTS SIZES FOR TYPE II SIGNS ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD.

STREET NAME SIGNS ARE PROPERTY OF THE MUNICIPALITY (CITY, TOWN OR VILLAGE). THE MUNICIPALITY SHALL BE CONTACTED TO REMOVE THEIR STREET NAME SIGNS PRIOR TO CONSTRUCTION AND IT IS THEIR RESPONSIBILITY TO REINSTALL THE OLD SIGNS OR REPLACE THEM FOLLOWING CONSTRUCTION. WISDOT DOES NOT FURNISH OR INSTALL STREET NAME SIGNS. THE STREET NAME SIGNS SHALL NOT BE PLACED ON TOP OF THE STOP SIGNS.

LOCATE NO PASSING PENNANTS BASED ON ESTABLISHING NO PASSING ZONES PAY ITEM. PLACE SIGNS BASED ON WHERE THE PAVEMENT MARKING FOR NO PASSING ZONES BEGIN.

BOX OUT OR CORING OF CONCRETE FOR SIGN POSTS IS INCIDENTAL TO THE POST.

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 259	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023201_16_PS.DWG
LAYOUT NAME - 023201_PS
PLOT DATE : 3/17/2021 1:21 PM
PLOT BY : MARTENS, KAREN L
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

RUTH PL

212 DO NOT ENTER R5-1(2M)

213 W11-2(2M)

214 W16-7L(2M)

215 W11-2(2M)

216 W16-7R(2M)

SEE PROJECT ID 2565-07-70

M2-1 JCT

M1-5A COUNTY D

J1-1(2M)

217 WRONG WAY R5-1A(2M)

RIGHT LANE MUST TURN RIGHT 218 R3-7R(3)

NO PARKING ANY TIME 219 R7-1D(2M)

220 221 W11-8(2M)

ONLY

STH 57 (N GREEN BAY RD)

105+00 106+00 107+00 108+00 109+00 110+00 111+00

STH 57 (N GREEN BAY RD)

225 226 JCT M2-1 100 M1-6 J1-1(2M)

NO PARKING ANY TIME 224 R7-1D(2M)

16X16 TEMPORARY ORANGE FLAGS INCIDENTAL

222 223 W3-3(2M)

N

2

SHEET 2 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 260	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023201_16_PS.DWG
LAYOUT NAME - 023202_PS

PLOT DATE : 3/17/2021 1:21 PM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

N

227 229 228 230 W11-2 (2M) AHEAD W16-9P (2M)

NO THRU TRAFFIC IN CURB LANE 231

NO PARKING ANY TIME R7-1D (2M) 232

SPEED LIMIT 40 R2-1 (2M) 233 234

STH 57 (N GREEN BAY RD)

111+00 112+00 113+00 114+00 115+00 116+00

STH 57 (N GREEN BAY RD)

1ST

M3-4 WEST EAST M3-2
M1-6 100 100 M1-6
M5-1L M5-1R
J2-2 (2M)
242 243

ALTERNATE MB4-1
NORTH MB3-1
INTERSTATE 43 M1-1
MB5-1R
J2-1 (2M)
241

W Brown Deer Rd NEXT SIGNAL D1-65
239 240

NO PARKING ANY TIME R7-1D (2M) 238

237 BEGIN LEFT TURN LANE R3-20L (2M)

236 WEST M3-4 100 M1-6 M6-1 J3-1 (2M)

235 EAST M3-2 100 M1-6 M6-1 J3-1 (2M)

SHEET 3 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 261	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023201_16_PS.DWG
LAYOUT NAME - 023203_PS

PLOT DATE : 3/17/2021 1:21 PM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

OVERHEAD SIGN SUPPORT
S-40-3092
STA 117+45

244 THIS LANE ENDS — W9-62(2M)

NO THRU TRAFFIC IN CURB LANE 619

245 SOUTH M3-3 / 57 M1-6 / J4-1(2M)

246 DIVIDED HIGHWAY R6-3(2S)

247 STOP R1-1F(3) MOUNT ON SIGNAL POLE

248 ONE WAY R6-2L(2S) MOUNT ON SIGNAL POLE

STH 100 (W BROWN DEER RD)

SEE SHEET 41

266 ONE WAY R6-2L(2S) MOUNT ON SIGNAL POLE

249 W Brown Deer Rd M1-94S (BROWN BACKGROUND) MOUNT ON MAST ARM

267 268 DO NOT ENTER R5-1(2M) MOUNT ON SIGNAL POLE

STH 57 (N GREEN BAY RD)

250 R4-7(2M) MOUNT ON SIGNAL POLE

251 252 DO NOT ENTER R5-1(2M) MOUNT ON SIGNAL POLE

281 W Brown Deer Rd M1-94S (BROWN BACKGROUND) MOUNT ON MAST ARM

280 R4-7(2M) MOUNT ON SIGNAL POLE

253 ONE WAY R6-2L(2S) MOUNT ON SIGNAL POLE

SEE SHEET 41

STH 100 (W BROWN DEER RD)

279 ONE WAY R6-2L(2S) MOUNT ON SIGNAL POLE

277 DIVIDED HIGHWAY R6-3(2S)

278 STOP R1-1F(3) MOUNT ON SIGNAL POLE

270 W11-2(2M)

271 W16-7L(2M)

269 STOP R1-1F(3) MOUNT ON SIGNAL POLE

272 274 DIVIDED HIGHWAY R6-3(2S)

273 275 STOP R1-1F(3) MOUNT ON SIGNAL POLE

276 W12-1D(2S) 2' MOUNT HEIGHT

265 BEGIN LEFT TURN LANE R3-20LL(2M)

262 ONLY ONLY R3-8LL(2S)

WRONG WAY 263 R5-1A(2M)

264 ALTERNATE MB4-1 / NORTH MB3-1 / INTERSTATE 43 M1-1 / MB6-1 / J3-1(2M)

258 260 DIVIDED HIGHWAY R6-3(2S)

259 261 STOP R1-1F(3) MOUNT ON SIGNAL POLE

257 W12-1D(2S) 2' MOUNT HEIGHT

256 STOP R1-1F(3) MOUNT ON SIGNAL POLE

254 W11-2(2M)

255 W16-7L(2M)

STH 57 (N GREEN BAY RD)

117+00 118+00 119+00 120+00 121+00 122+00 497+00 498+00 499+00 500+00

45' 30' 45'

SHEET 4 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 262	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023201_16_PS.DWG
LAYOUT NAME - 023204_PS

PLOT DATE : 3/17/2021 1:21 PM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

N

282 BEGIN LEFT TURN LANE — R3-20LL (2M)

283 ONLY ONLY — R3-8LL(2S)

284 WRONG WAY — R5-1A (2M)

285 WEST M3-4 / 100 M1-6 / M6-1 — J3-1 (2M)

286 NO PARKING ANY TIME — R7-1D (2M)

287 EAST M3-2 / 100 M1-6 / M6-1 — J3-1(2M)

288 ALTERNATE MB4-1 / SOUTH MB3-3 / INTERSTATE 43 M1-1 / MB6-1 — J3-1(2M)

289 BEGIN LEFT TURN LANE — R3-20L (2M)

STH 57 (N GREEN BAY RD)

123+00 124+00 125+00 126+00 127+00 128+00

290 — W4-2R (2M)

291 NO PARKING ANY TIME — R7-1D (2M)

292 293 SPEED LIMIT 40 — R2-1 (2M)

OVERHEAD SIGN SUPPORT
S-40-3093
STA 123+00

295 NORTH M3-1 / 57 M1-6 — J4-1 (2M)

294 THIS LANE ENDS — W9-62 (2M)

296 ALTERNATE MB4-1 / NORTH M3-1 / INTERSTATE 43 M1-1 — J4-1(2M)

SHEET 5 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 263	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023201_16_PS.DWG
LAYOUT NAME - 023205_PS

PLOT DATE : 3/17/2021 1:21 PM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

297 298 W Brown Deer Rd NEXT SIGNAL D1-65

299 300 M3-2 EAST WEST M3-4 M1-6 100 100 M1-6 M5-1L M5-1R J2-2 (2M)

301 ALTERNATE MB4-1 SOUTH MB3-3 INTERSTATE 43 M1-1 MB5-1L J2-1(2M)

16X16 TEMPORARY ORANGE FLAGS INCIDENTAL

302 303 W3-3(2M)

304 305 JCT M2-1 100 M1-6 J1-1(2M)

STH 57 (N GREEN BAY RD)

128+00 129+00 130+00 131+00 132+00 133+00

STH 57 (N GREEN BAY RD)

310 311 W3-3(2M)

N Deerwood Dr NEXT SIGNAL D1-65 308 309

NO PARKING ANY TIME R7-1D (2M) 307

BEGIN LEFT TURN LANE 306 R3-20L(2M)

SHEET 6 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 264	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023201_16_PS.DWG
LAYOUT NAME - 023206_PS

PLOT DATE : 3/17/2021 1:21 PM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

312 NO PARKING ANY TIME R7-1D (2M)

313 SPEED LIMIT 40 R2-1 (2M)

314

Brown Deer
BROWN DEER PARK
SCHOOL/LIBRARY CAMPUS
ORIGINAL VILLAGE DISTRICT
VILLAGE GOVT/PARKS
MOVE BY OTHERS

315 SOUTH 57 M3-3 M1-6 J4-1 (2M)

316 N Deerwood Dr M1-94H
MOVE VILLAGE PERMIT SIGN MOUNT ON MAST ARM

317 ONE WAY R6-2L (2S) MOUNT ON SIGNAL POLE

318 57 M1-6 M6-4 J13-1 (2S)

319 DIVIDED HIGHWAY R6-3 (2S)

320 STOP R1-1F (3) MOUNT ON SIGNAL POLE

321 N Green Bay Rd
MOVE VILLAGE PERMIT SIGN MOUNT ON MAST ARM

322 DO NOT ENTER R5-1 (2M) MOUNT ON SIGNAL POLE

323 STOP R1-1F (3) MOUNT ON SIGNAL POLE

324

325 R4-7 (2M) MOUNT ON SIGNAL POLE

326 R4-7 (2M) MOUNT ON SIGNAL POLE

327 NO PARKING ANY TIME R7-1D (2M)

328 ONE WAY R6-2L (2S)

329 N Deerwood Dr M1-94H
MOVE VILLAGE PERMIT SIGN

330 57 M1-6 M6-4 J13-1 (2S)

331 DIVIDED HIGHWAY R6-3 (2S)

332 STOP R1-1F (3) MOUNT ON SIGNAL POLE

333 ONLY R3-8LF (2S)

334 N Green Bay Rd
MOVE VILLAGE PERMIT SIGN MOUNT ON MAST ARM

335 DO NOT ENTER R5-1 MOUNT ON SIGNAL POLE

336 STOP R1-1F (3) MOUNT ON SIGNAL POLE

337 DO NOT ENTER R5-1 (2M)

338 STOP R1-1F (3)

339 STOP R1-1F (3) MOUNT ON SIGNAL POLE

340 BEGIN LEFT TURN LANE R3-20LL (2M)

341 WRONG WAY R5-1A (2M)

N DEERWOOD DR

STH 57 (N GREEN BAY RD)

134+00 135+00 136+00 137+00 138+00 139+00

40' 45' 40' 30'

INL

SHEET 7 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 265	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023201_16_PS.DWG
LAYOUT NAME - 023207_PS
PLOT DATE : 3/17/2021 1:21 PM
PLOT BY : MARTENS, KAREN L
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

2

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

WRONG WAY
R5-1A (2M)
342

W3-3
ESTR

N Deerwood Dr
NEXT SIGNAL
D1-65
ESTR

SPEED LIMIT 40
R2-1
ESTR

W3-3
ESTR

STH 57 (N GREEN BAY RD)

SERVICE ROAD

140+00 141+00 142+00 143+00 144+00 145+00

SHEET 8 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 266	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023201_16_PS.DWG
LAYOUT NAME - 023208_PS

PLOT DATE : 3/17/2021 1:21 PM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

N

343 ONE WAY R6-2L(2S)

344 R4-7 (2M)

345 ONE WAY R6-1R (2S)

346 STOP R1-1 (3)

347 DIVIDED HIGHWAY R6-3A (2S)

348 ONE WAY R6-2L(2S)

R4-7 ESTR

BEGIN LEFT TURN LANE R3-20L ESTR

NO PARKING ANY TIME R7-1D ESTR

N Schroeder Dr NEXT SIGNAL D1-65 ESTR

WRONG WAY R5-1A ESTR

SPEED LIMIT 40 R2-1 ESTR

349 ONE WAY R6-2L(2S) MOUNT ON SIGNAL POLE

350 W Schroeder Dr MOVE VILLAGE PERMIT SIGN MOUNT ON MAST ARM

351 57 M1-6 M6-4 J13-1 (2S)

352 DIVIDED HIGHWAY R6-3 (2S)

353 STOP R1-1F(3) MOUNT ON SIGNAL POLE

354 DO NOT ENTER R5-1(2S) MOUNT ON SIGNAL POLE

355 R4-7 (2M) MOUNT ON SIGNAL POLE

356 357 STOP R1-1F(3) MOUNT ON SIGNAL POLE

358 DO NOT ENTER R5-1 (2M) MOUNT ON SIGNAL POLE

359 N Green Bay Rd MOVE VILLAGE PERMIT SIGN MOUNT ON MAST ARM

STH 57 (N GREEN BAY RD)

W SCHROEDER DR

35'

20'

145+00 146+00 147+00 148+00 149+00 150+00 151+00

SHEET 9 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 267	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023201_16_PS.DWG
LAYOUT NAME - 023209_PS

PLOT DATE : 3/17/2021 1:21 PM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)
EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
PROPOSED SIGN MOUNTED ON POST(S)
PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
EXISTING LIGHT OR SIGNAL POLE
CANTILEVER SIGN BRIDGE
XXX DENOTES SIGN NUMBER
(X) INDICATES SIGN SIZE
ESTR EXISTING SIGN TO REMAIN

N

360 R4-7(2M)

W SCHROEDER DR

N Green Bay Rd 361
MOVE
VILLAGE PERMIT SIGN
MOUNT ON MAST ARM

STOP 362 363
R1-1F(3)
MOUNT ON
SIGNAL POLE

WRONG WAY
R5-1A
ESTR

NO PARKING ANY TIME
R7-1D
ESTR

BEGIN LEFT TURN LANE
R3-20L
ESTR

BUS STOP
PROPERTY
OF MCTS

W Schroeder Dr
NEXT SIGNAL
D1-65
ESTR

DO NOT ENTER 364
R5-1 (2M)
MOUNT ON
SIGNAL POLE

STH 57 (N GREEN BAY RD)

151+00 152+00 153+00 154+00 155+00 156+00

365 R4-7(2M)
MOUNT ON
SIGNAL POLE

366

W Schroeder Dr
MOVE
VILLAGE PERMIT SIGN
MOUNT ON MAST ARM

STH 57 (N GREEN BAY RD)

SERVICE ROAD

ONE WAY 370
R6-2L(2S)
MOUNT ON
SIGNAL POLE

SPEED LIMIT 40
R2-1
ESTR

NO PARKING ANY TIME
R7-1D
ESTR

RIGHT LANE ENDS 371
W9-1R (2M)

BUS STOP
PROPERTY
OF MCTS

ONE WAY 372
R6-2R(2S)

RIGHT TURN ONLY
R3-53R (2S)

NO PARKING ANY TIME
R7-1D
ESTR

DIVIDED HIGHWAY 367
R6-3 (2S)

STOP 368
R1-1F(3)
MOUNT ON
SIGNAL POLE

369 57 M1-6 M6-4
J13-1 (2S)

W5-56 W5-56 ESTR W5-56

373 ONE WAY
R6-1R (2S)

375

374 STOP
R1-1
MOVE

W SCHROEDER DR

SHEET 10 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 268	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023201_16_PS.DWG
LAYOUT NAME - 023210_PS
PLOT DATE : 3/17/2021 1:21 PM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

376 ONE WAY R6-1R (2S)
377 STOP R1-1 (3)
378 DIVIDED HIGHWAY R6-3 (2S)
W3-3 ESTR
380 DO NOT ENTER R5-1 (2M)
379 ONE WAY R6-2L (2S)
386 ONE WAY R6-2R (2S)
387 R4-7 (2M)
388 ONE WAY R6-2L (2S)
381 ONE WAY R6-2L (2S)
R4-7 ESTR
385 W4-2R (2M)
384 DO NOT ENTER R5-1 (2M)
382 STOP R1-1 (3)
383 DIVIDED HIGHWAY R6-3 (2S)
389 DO NOT ENTER R5-1 (2M)
STOP R1-1 ESTR
390 R4-7 (2M)
391 R3-2 (2S)
392 ONE WAY R6-1R (2S)
393 STOP R1-1 (3)
394 DIVIDED HIGHWAY R6-3 (2S)

W DEER RUN DR
STH 57 (N GREEN BAY RD)
SERVICE ROAD
W CHERRYWOOD LN
157+00 158+00 159+00 160+00 161+00 162+00

SHEET 11 OF 47

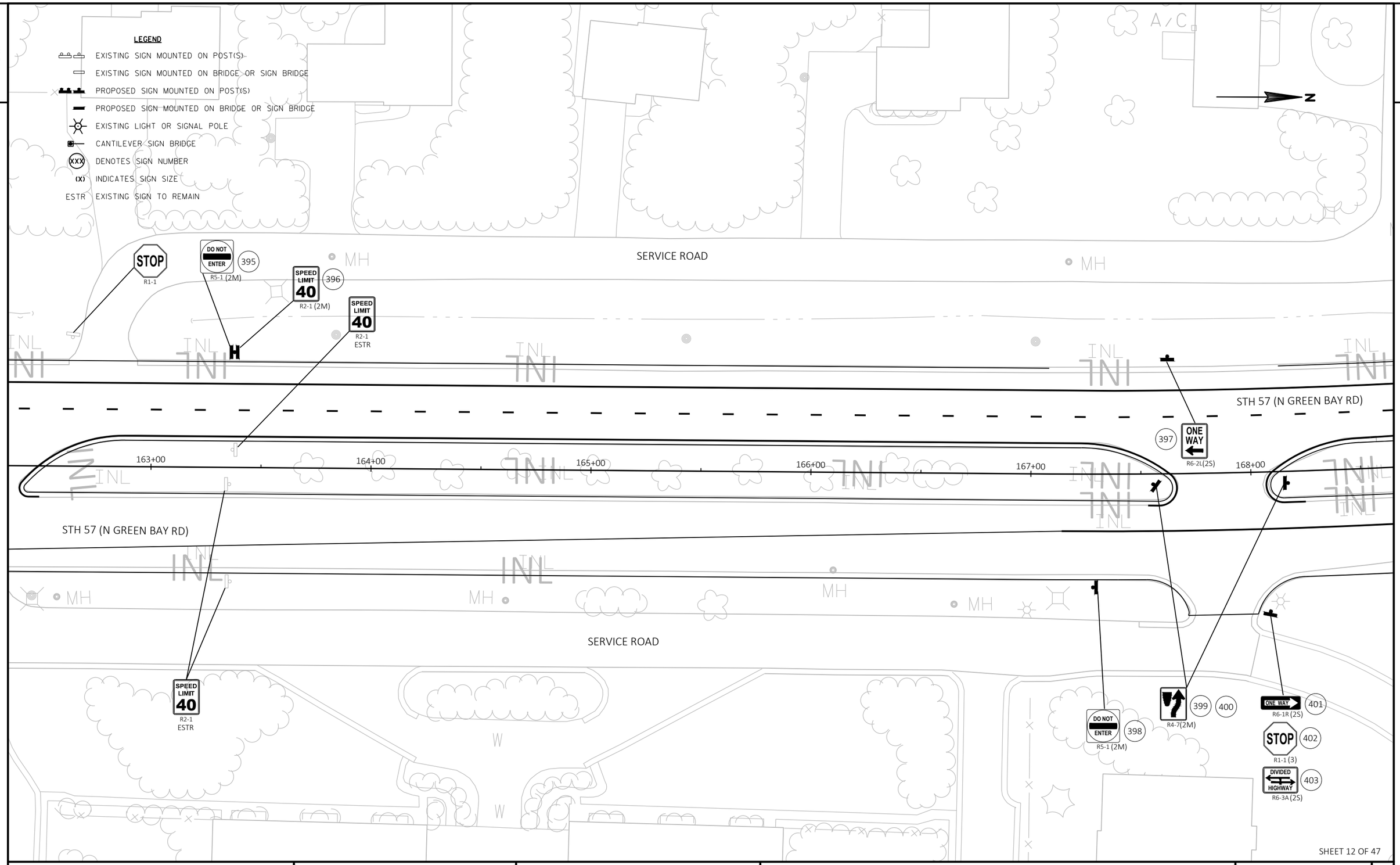
PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 269 E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023201_16_PS.DWG
LAYOUT NAME - 023211_PS
PLOT DATE : 3/17/2021 1:22 PM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN



SHEET 12 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 270	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023201_16_PS.DWG
LAYOUT NAME - 023212_PS

PLOT DATE : 3/17/2021 1:22 PM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

ADOPT A HIGHWAY
I55-56
ESTR

TREE CITY
REMOVE
ILLEGAL SIGN

LOCAL SIGN
PROPERTY
OF VILLAGE

SPEED LIMIT 40
R2-1
ESTR

Milwaukee Co
I2-2
ESTR

Brown Deer
POPULATION 11,999
I2-3
ESTR

ONE WAY 404
R6-1R (2S)

STOP 405
R1-1 (3)

DIVIDED HIGHWAY 406
R6-3 (2S)

W COUNTY LINE RD

ONE WAY 407
R6-2L(2S)

NO OVERNIGHT PARKING BETWEEN 2AM AND 6AM
NO PARKING DURING SNOW EMERGENCY
FASTEN YOUR SEAT BELTS
ESTR
PROPERTY
OF VILLAGE

N

STH 57 (N CEDARBURG RD)

174+00

169+00

170+00

171+00

172+00

173+00

STH 57 (N GREEN BAY RD)

408 409
R4-7 (2M)

W6-2
ESTR

410 Ozaukee Co
I2-2
MOVE

411 Mequon
POPULATION 24159
I2-3
MOVE

ONE WAY 412
R6-1R (2S)

STOP 413
R1-1 (3)

DIVIDED HIGHWAY 414
R6-3 (2S)

ONE WAY 415
R6-2L(2S)

STOP
SCHOOL BUS
FLASHING
RED LIGHTS
R59-51
ESTR

NO ENGINE BRAKING 416
MOVE
TO SEPARATE POST
(PERMIT SIGN)

W COUNTY LINE RD

SHEET 13 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE/OZAUKEE	PERMANENT SIGNING PLAN	SHEET 271	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023201_16_PS.DWG
LAYOUT NAME - 023213_PS

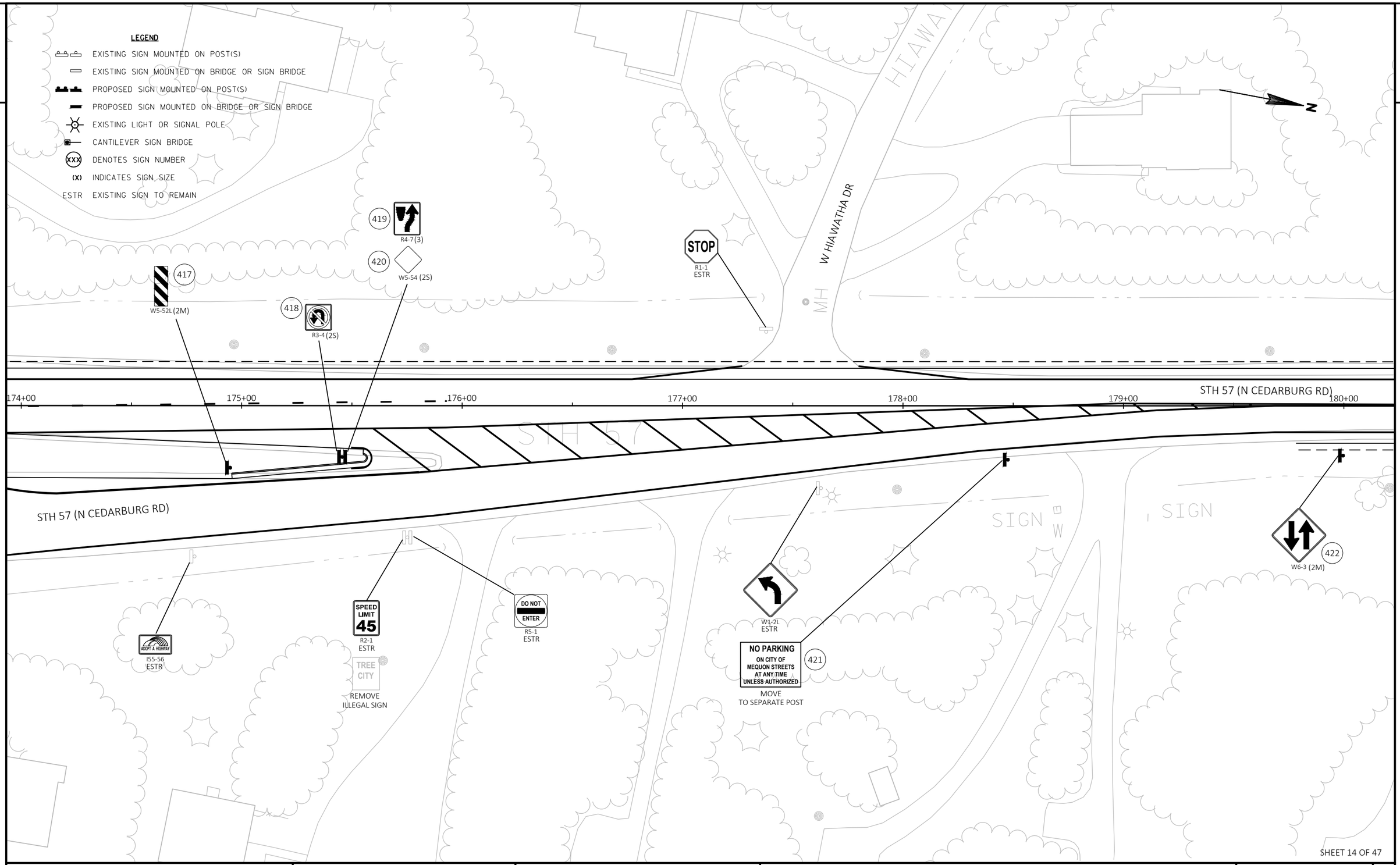
PLOT DATE : 3/17/2021 1:22 PM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN



SHEET 14 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: OZAUKEE	PERMANENT SIGNING PLAN	SHEET 272	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023201_16_PS.DWG
LAYOUT NAME - 023214_PS

PLOT DATE : 3/17/2021 1:22 PM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

N

W6-1
ESTR

SPEED LIMIT 45
R2-1
ESTR

SPEED LIMIT 45
R2-1
ESTR

STH 57 (N CEDARBURG RD)

180+00 181+00 182+00 183+00 184+00 185+00 186+

STH 57 (N CEDARBURG RD)

SIGN

SIGN

SHEET 15 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: OZAUKEE	PERMANENT SIGNING PLAN	SHEET 273	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023201_16_PS.DWG
LAYOUT NAME - 023215_PS

PLOT DATE : 3/17/2021 1:22 PM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

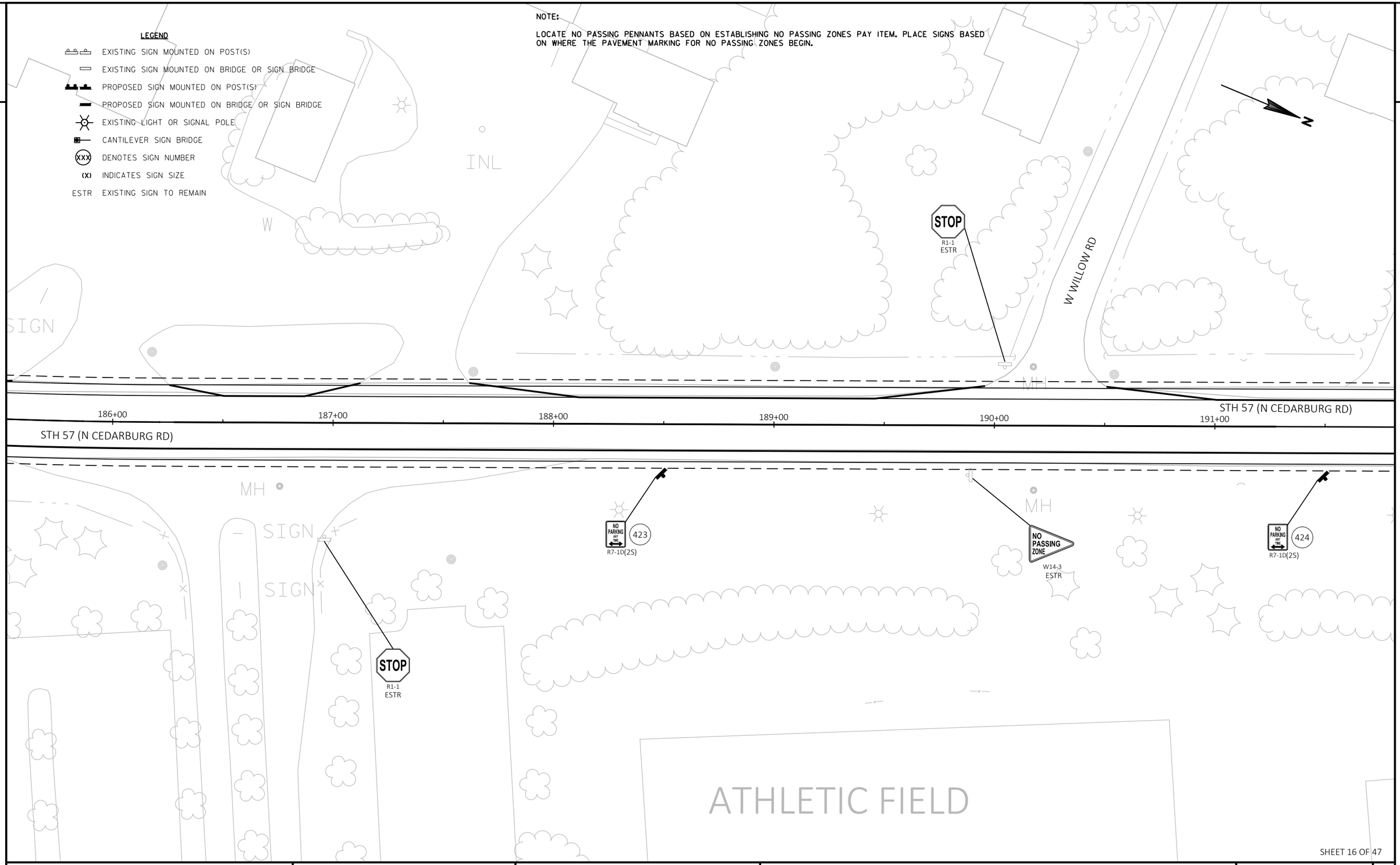
2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

NOTE:

LOCATE NO PASSING PENNANTS BASED ON ESTABLISHING NO PASSING ZONES PAY ITEM. PLACE SIGNS BASED ON WHERE THE PAVEMENT MARKING FOR NO PASSING ZONES BEGIN.



SHEET 16 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: OZAUKEE	PERMANENT SIGNING PLAN	SHEET 274	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023201_16_PS.DWG
LAYOUT NAME - 023216_PS

PLOT DATE : 3/17/2021 1:22 PM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

W1-2R
ESTR

STOP
R1-1
ESTR

W ELMDALE RD

N

W

MH

192+00 193+00 194+00 195+00 196+00 197+00

STH 57 (N CEDARBURG RD)

STH 57 (N CEDARBURG RD)

STH

NO PARKING ANY TIME
425
R7-1D(2S)

BLEACHERS

SIGN

W

ATHLETIC FIELD

SHEET 17 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: OZAUKEE	PERMANENT SIGNING PLAN	SHEET 275	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023201_16_PS.DWG
LAYOUT NAME - 023217_PS

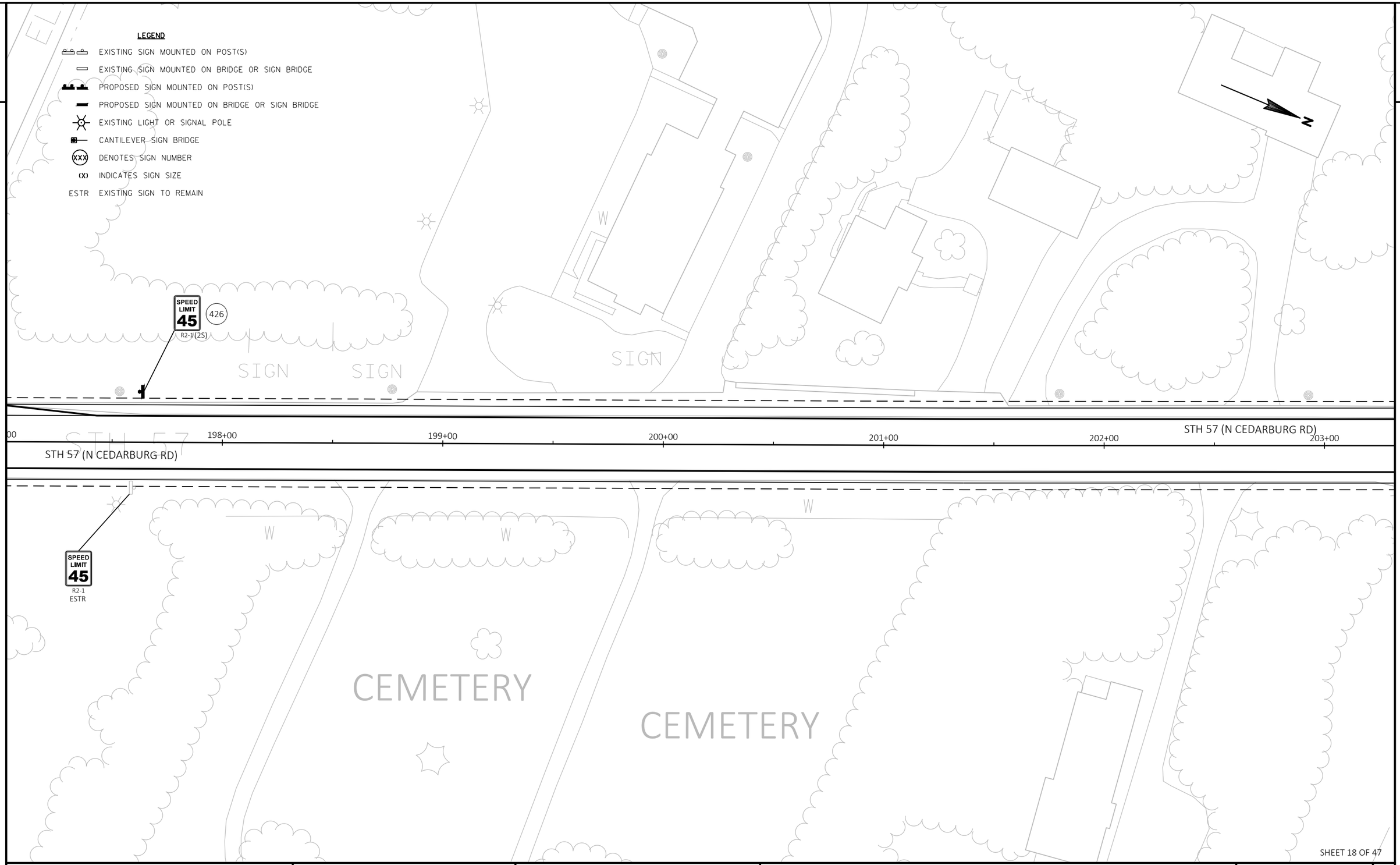
PLOT DATE : 3/17/2021 1:22 PM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN



SHEET 18 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: OZAUKEE	PERMANENT SIGNING PLAN	SHEET 276	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023201_16_PS.DWG
LAYOUT NAME - 023218_PS

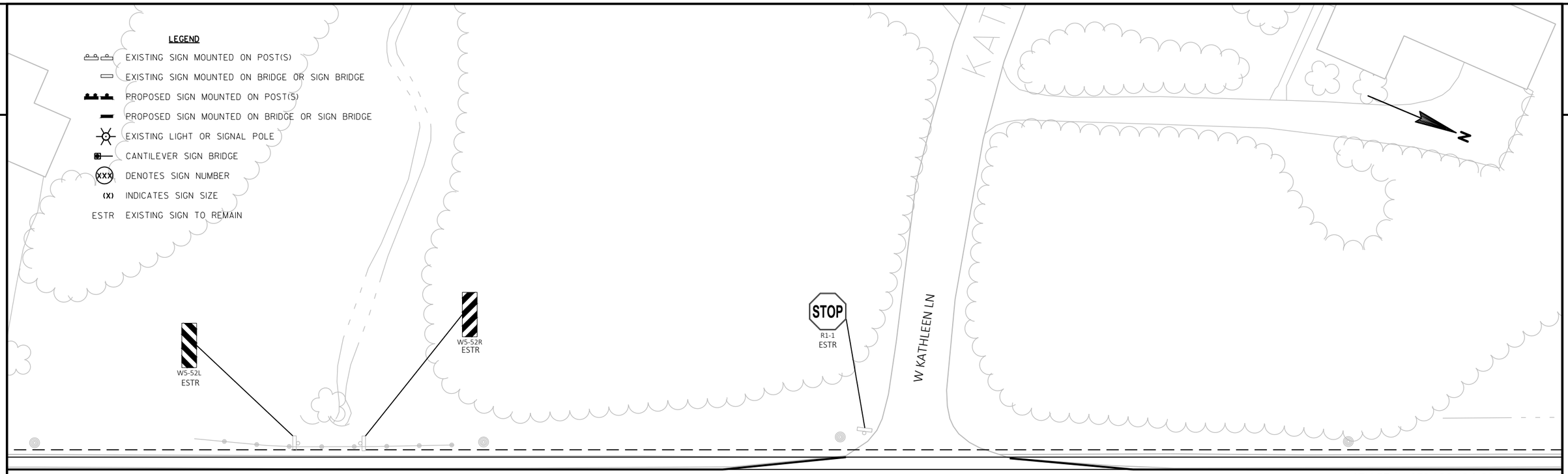
PLOT DATE : 3/17/2021 1:22 PM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN



2

SHEET 19 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: OZAUKEE	PERMANENT SIGNING PLAN	SHEET 277 E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023201_16_PS.DWG
LAYOUT NAME - 023219_PS

PLOT DATE : 3/17/2021 1:22 PM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

SPEED LIMIT 45
R2-1
ESTR

STOP
R1-1
ESTR

W WESTFIELD RD

209+00 210+00 211+00 212+00 213+00 214+00

STH 57 (N CEDARBURG RD)

STH 57 (N CEDARBURG RD)

SIGN

SPEED LIMIT 45
R2-1
ESTR

2

SHEET 20 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: OZAUKEE	PERMANENT SIGNING PLAN	SHEET 278	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023201_16_PS.DWG
LAYOUT NAME - 023220_PS

PLOT DATE : 3/17/2021 1:22 PM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

NO SIGNS THIS SHEET

N

STH 57 (N CEDARBURG RD)

215+00 216+00 217+00 218+00 219+00 220+00

STH 57 (N CEDARBURG RD)

SIGN

SHEET 21 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: OZAUKEE	PERMANENT SIGNING PLAN	SHEET 279	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023201_16_PS.DWG
LAYOUT NAME - 023221_PS

PLOT DATE : 3/17/2021 1:22 PM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

NOTE:

LOCATE NO PASSING PENNANTS BASED ON ESTABLISHING NO PASSING ZONES PAY ITEM. PLACE SIGNS BASED ON WHERE THE PAVEMENT MARKING FOR NO PASSING ZONES BEGIN.

N

NO PASSING ZONE
W14-3
ESTR

SPEED LIMIT 45
R2-1
ESTR

STH 57 (N CEDARBURG RD)

220+00 221+00 222+00 223+00 224+00 225+00 226+00

STH 57 (N CEDARBURG RD)

W Donges Bay Rd
NEXT SIGNAL
D1-65
427

428
W3-3(2S)

SHEET 22 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: OZAUKEE	PERMANENT SIGNING PLAN	SHEET 280	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023201_16_PS.DWG
LAYOUT NAME - 023222_PS

PLOT DATE : 3/17/2021 1:23 PM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

SEE SHEET 23A

W DONGES BAY RD

STH 57 (N CEDARBURG RD)

226+00 227+00 228+00 229+00 230+00 231+00

429 SOUTH 57 M3-3 M1-6 J4-1 (2S)

DO NOT PASS ON SHOULDER R4-18 ESTR

57 N Cedarburg Rd 441 M1-9S MOUNT ON MAST ARM

W Donges Bay Rd 443 M1-9H MOUNT ON MAST ARM

STOP 442 R1-1F(3) MOUNT ON SIGNAL POLE

444 NO PARKING ANY TIME R7-1L(2S)

57 N Cedarburg Rd 445 M1-9S MOUNT ON MAST ARM

R ESTR

440 STOP R1-1F(3) MOUNT ON SIGNAL POLE

439 W12-1D(2S) 2' MOUNT HEIGHT

25'

35'

431 NO PARKING ANY TIME R7-1D(2S)

430 ONLY R3-8 LF(2S)

LEFT LANE MUST TURN LEFT 432 R3-7L (2S)

STOP 433 R1-1F(3) MOUNT ON SIGNAL POLE

434 W12-1D (2S)

STOP 435 R1-1 (3) MOUNT ON LIGHT POLE

SPEED LIMIT 25 R2-1 ESTR

DEAD END W14-1 ESTR

FILLER CAPS

CANOPY

MH

W Donges Bay Rd 438 M1-94H MOUNT ON MAST ARM

STOP 437 R1-1F(3) MOUNT ON SIGNAL POLE

436 ONLY R3-8 LF(2S)

W DONGES BAY RD

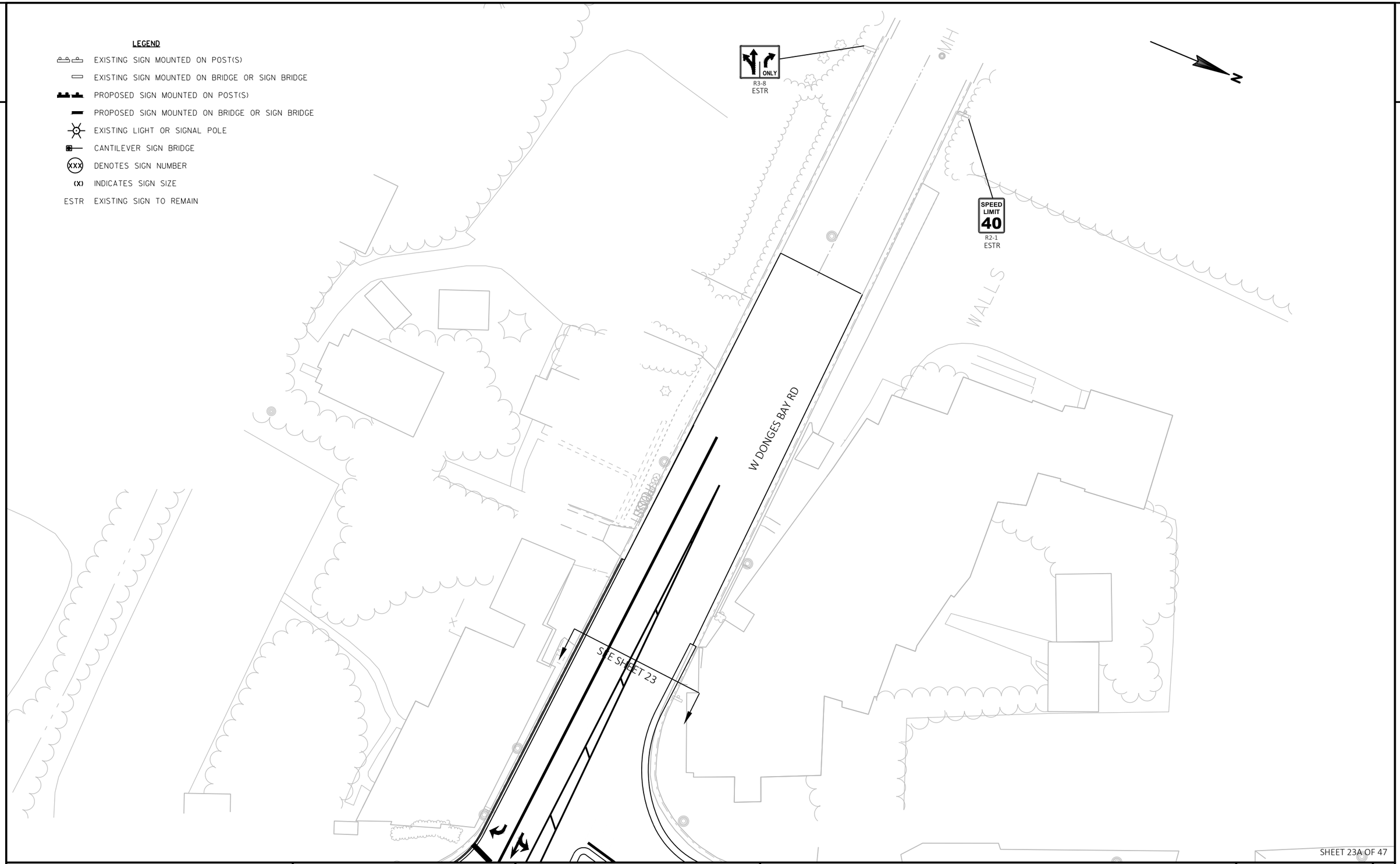
SHEET 23 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: OZAUKEE	PERMANENT SIGNING PLAN	SHEET 281 E

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN



2

SHEET 23A OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: OZAUKEE	PERMANENT SIGNING PLAN	SHEET 282 E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023201_16_PS.DWG
LAYOUT NAME - 023223A_PS

PLOT DATE : 3/17/2021 1:23 PM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

W DONGES BAY RD

446 STOP
R1-1(3)
MOUNT ON
LIGHT POLE

447 NO PARKING ANY TIME
R7-1R(2S)

448 LEFT LANE MUST TURN LEFT
R3-7L (2S)

451 ONLY ONLY ONLY
R3-8LAR(2S)

STH 57 (N CEDARBURG RD)

232+00 233+00 234+00 235+00 236+00 237+00

STH 57 (N CEDARBURG RD)

449 NORTH M3-1 / 57 M1-6
J4-1(2S)

612 NO PARKING ANY TIME
R7-1D(2S)

450 SPEED LIMIT 45
R2-1 (2S)

SIGN POST

SHEET 24 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: OZAUKEE	PERMANENT SIGNING PLAN	SHEET 283	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023201_16_PS.DWG
LAYOUT NAME - 023224_PS

PLOT DATE : 3/17/2021 1:23 PM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

NOTE:

LOCATE NO PASSING PENNANTS BASED ON ESTABLISHING NO PASSING ZONES PAY ITEM. PLACE SIGNS BASED ON WHERE THE PAVEMENT MARKING FOR NO PASSING ZONES BEGIN.

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

452 453
W3-3(2S)

W Donges Bay Rd
NEXT SIGNAL
D1-65
454

STOP
R1-1
ESTR

R4-7
ESTR

BAYBERRY PKWY

SIGN

STH 57 (N CEDARBURG RD)

237+00 238+00 239+00 240+00 241+00 242+00 243

STH 57 (N CEDARBURG RD)

POST

NO PASSING ZONE
W14-3
ESTR

W

SHEET 25 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: OZAUKEE	PERMANENT SIGNING PLAN	SHEET 284	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023201_16_PS.DWG
LAYOUT NAME - 023225_PS

PLOT DATE : 3/17/2021 1:23 PM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

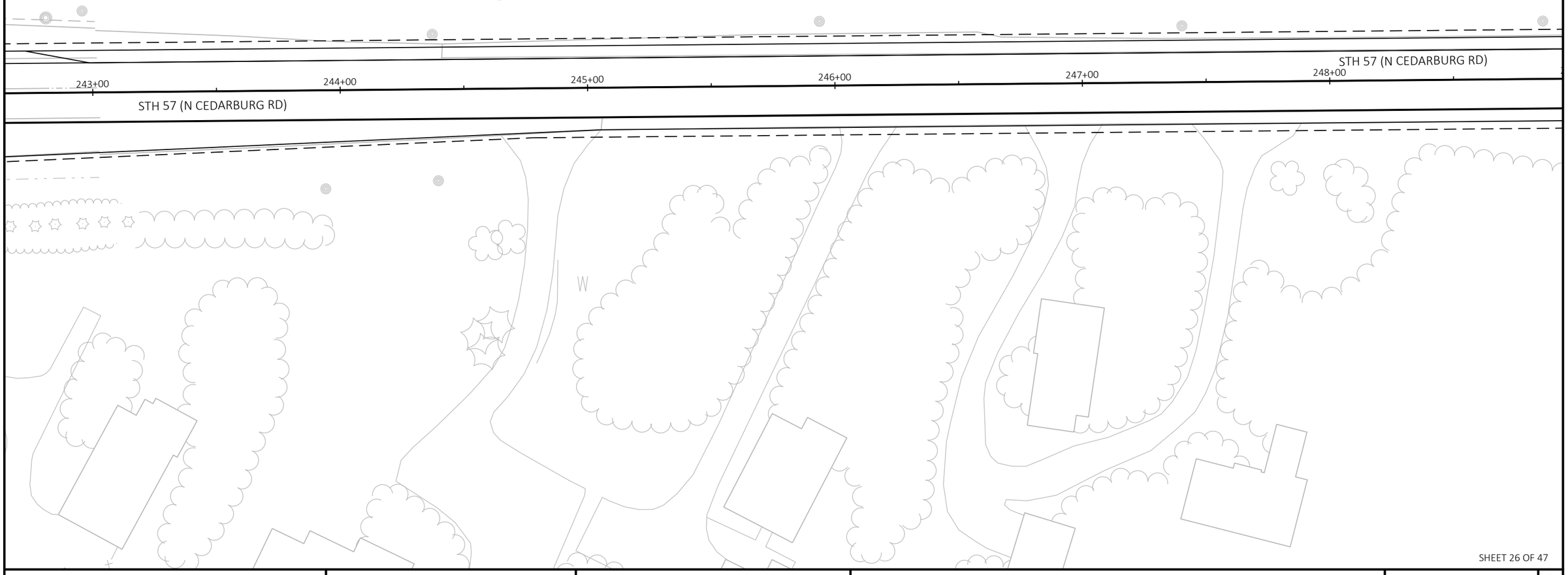
WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

NO SIGNS THIS SHEET



2

SHEET 26 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: OZAUKEE	PERMANENT SIGNING PLAN	SHEET 285	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023226_16_PS.DWG
LAYOUT NAME - 023226_PS

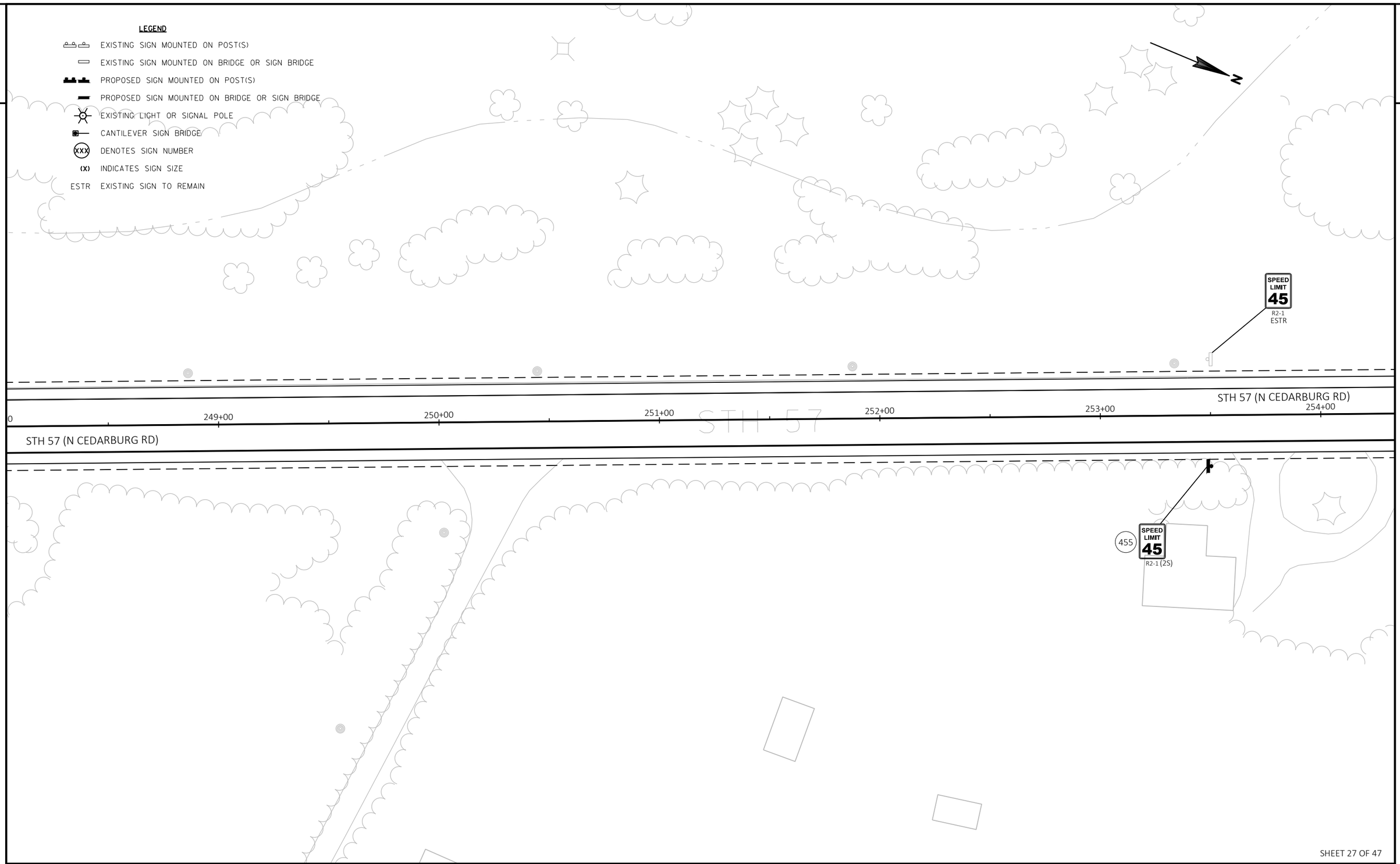
PLOT DATE : 3/17/2021 1:23 PM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN



2

SHEET 27 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: OZAUKEE	PERMANENT SIGNING PLAN	SHEET 286	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023226_16_PS.DWG
LAYOUT NAME - 023227_PS

PLOT DATE : 3/17/2021 1:23 PM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

NO SIGNS THIS SHEET

N

254+00 255+00 256+00 257+00 258+00 259+00

STH 57 (N CEDARBURG RD)

STH 57 (N CEDARBURG RD)

W

2

SHEET 28 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: OZAUKEE	PERMANENT SIGNING PLAN	SHEET 287	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023226_16_PS.DWG
LAYOUT NAME - 023228_PS

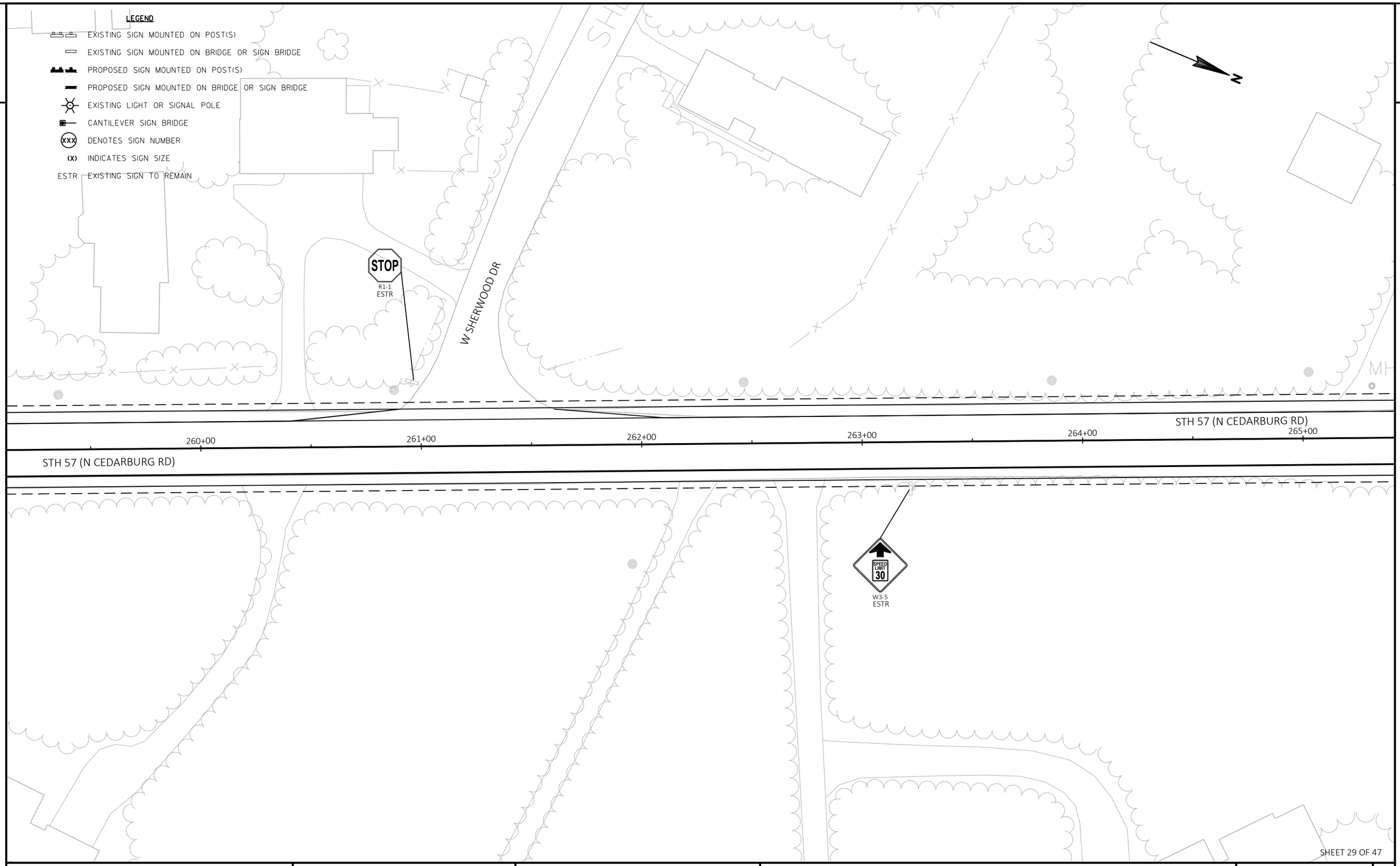
PLOT DATE : 3/17/2021 1:23 PM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN



SHEET 29 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: OZAUKEE	PERMANENT SIGNING PLAN	SHEET 288	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023226_16_PS.DWG
LAYOUT NAME - 023229_PS

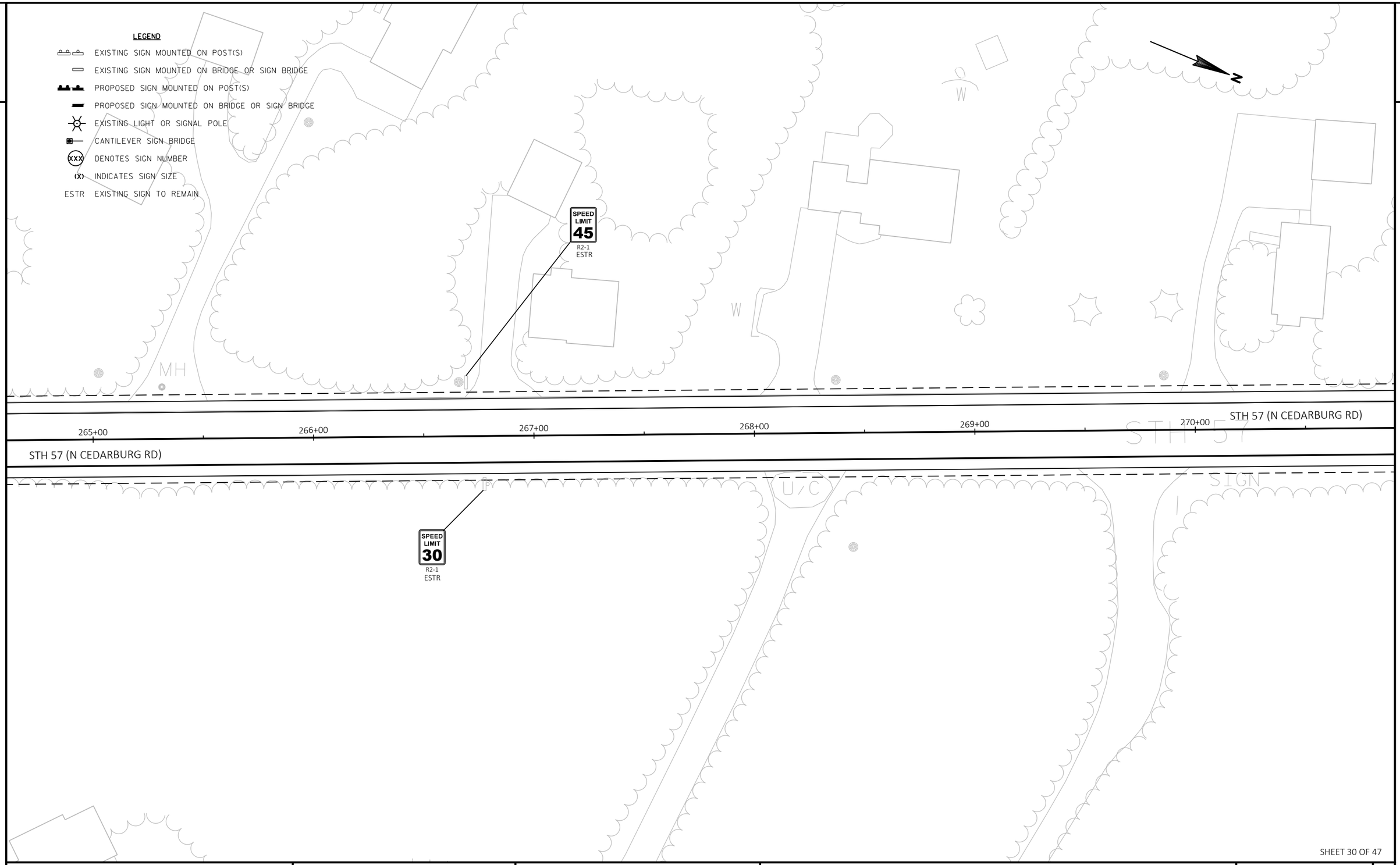
PLOT DATE : 3/17/2021 1:23 PM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN



SHEET 30 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: OZAUKEE	PERMANENT SIGNING PLAN	SHEET 289	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023226_16_PS.DWG
LAYOUT NAME - 023230_PS

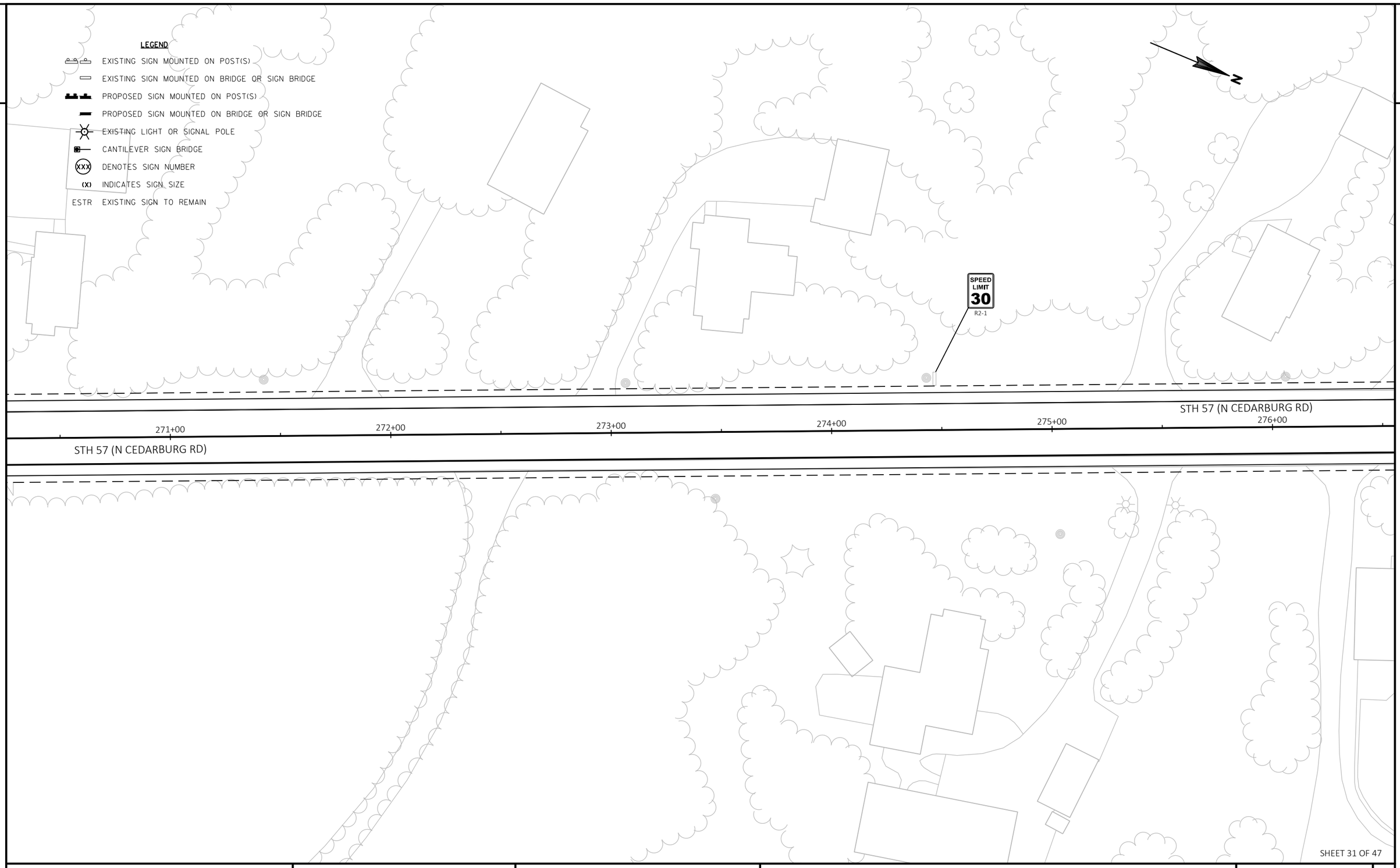
PLOT DATE : 3/17/2021 1:23 PM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN



2

SHEET 31 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: OZAUKEE	PERMANENT SIGNING PLAN	SHEET 290	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023226_16_PS.DWG
LAYOUT NAME - 023231_PS

PLOT DATE : 3/17/2021 1:24 PM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

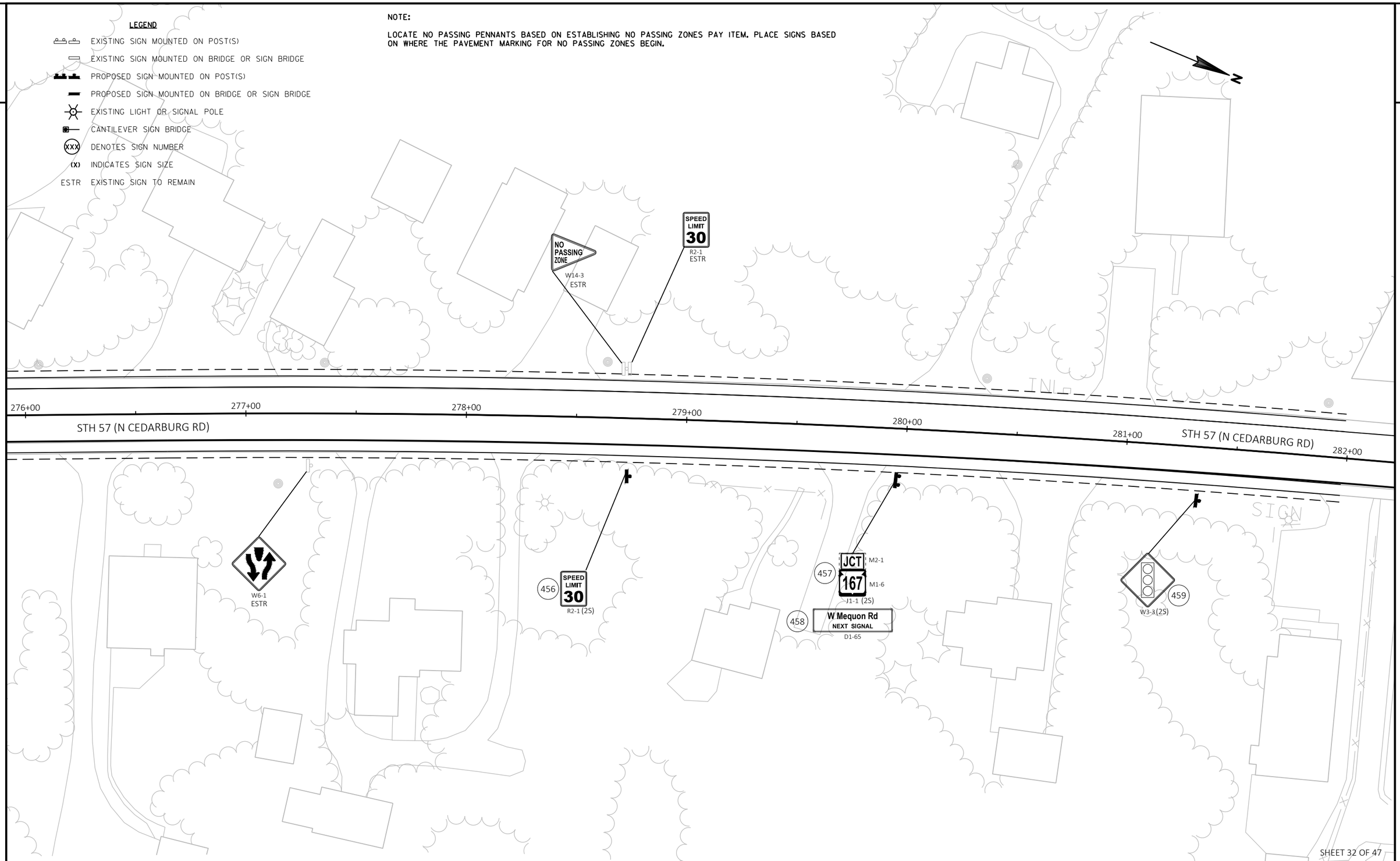
2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

NOTE:

LOCATE NO PASSING PENNANTS BASED ON ESTABLISHING NO PASSING ZONES PAY ITEM. PLACE SIGNS BASED ON WHERE THE PAVEMENT MARKING FOR NO PASSING ZONES BEGIN.



SHEET 32 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: OZAUKEE	PERMANENT SIGNING PLAN	SHEET 291	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023226_16_PS.DWG
LAYOUT NAME - 023232_PS

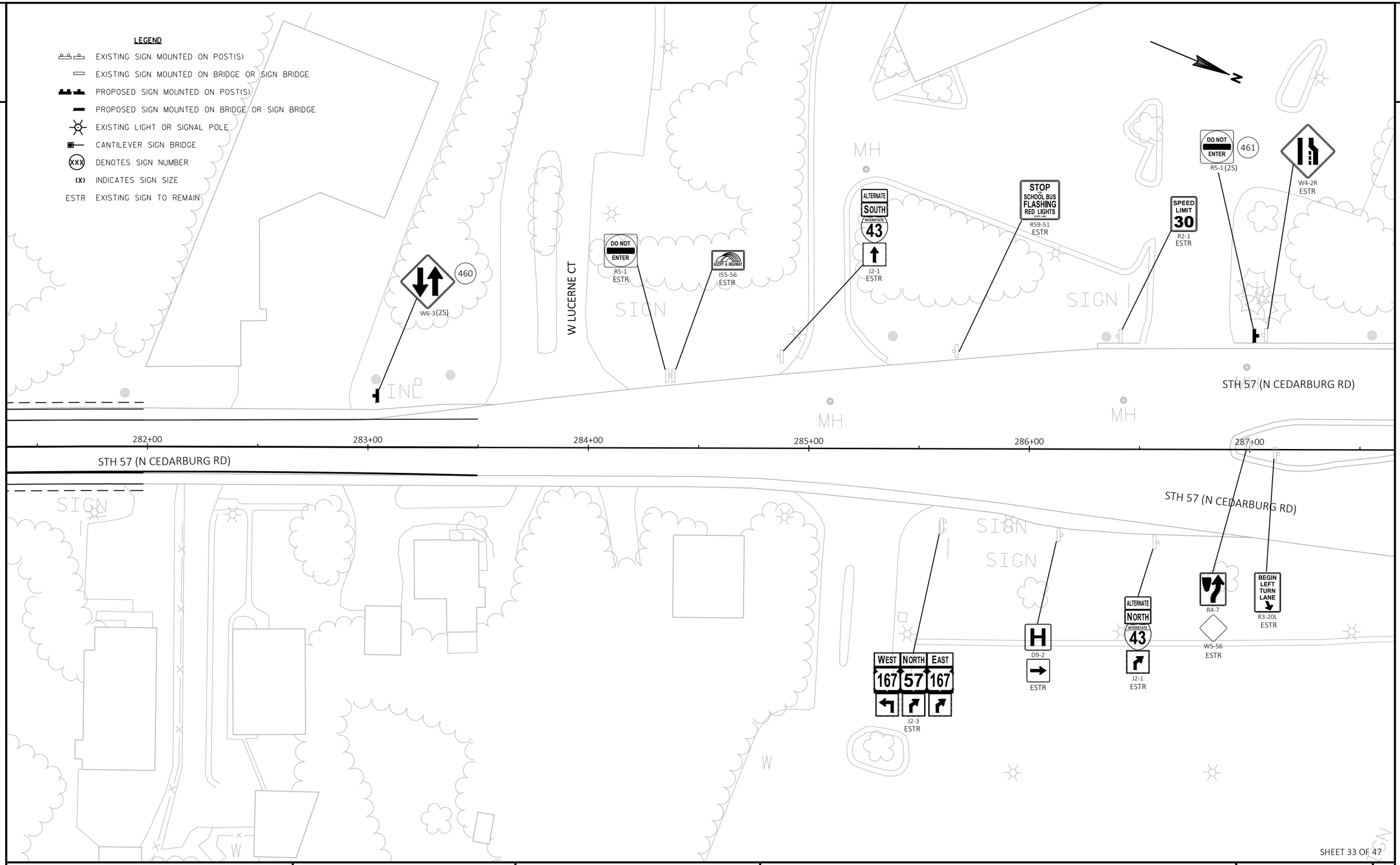
PLOT DATE : 3/17/2021 1:24 PM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN



SHEET 33 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: OZAUKEE	PERMANENT SIGNING PLAN	SHEET 292 E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023226_16_PS.DWG
LAYOUT NAME - 023233_PS

PLOT DATE : 3/17/2021 1:24 PM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

2

CANOPY

STH 167 (W MEQUON RD)

STH 57 (N CEDARBURG RD)

287+00 288+00 289+00

WEST 167 J3-1 ESTR

SOUTH 57 J4-1 ESTR

YIELD R1-2 ESTR

W12-1D ESTR

STOP R1-1F ESTR

DO NOT ENTER R5-1 ESTR

ONE WAY R6-2L ESTR

Cedarburg Rd ESTR

ONE WAY R6-2L ESTR

STOP R1-1F ESTR

STOP R1-1F ESTR

R4-7 ESTR

Cedarburg Rd ESTR

Mequon Rd ESTR

NORTH EAST 57 167 J3-2 ESTR

ONLY R3-5L ESTR

W12-1D ESTR

YIELD R1-2 ESTR

ONE WAY R6-2L ESTR

STOP R1-1F ESTR

W12-1D ESTR

YIELD R1-2 ESTR

ONE WAY R6-2L ESTR

STH 167 (W MEQUON RD)

STH 57 (N CEDARBURG RD)

SHEET 34 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: OZAUKEE	PERMANENT SIGNING PLAN	SHEET 293	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023226_16_PS.DWG
LAYOUT NAME - 023234_PS

PLOT DATE : 3/17/2021 1:24 PM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

NO SIGNS THIS SHEET

CANOPY
SIGN
SIGN
SIGN
SIGN
SIGN
W
INL
MH
MH
CEDARBURG RD.
STH 57 (N CEDARBURG RD)
STH 57 (N CEDARBURG RD)

SHEET 35 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: OZAUKEE	PERMANENT SIGNING PLAN	SHEET 294	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023226_16_PS.DWG
LAYOUT NAME - 023235_PS

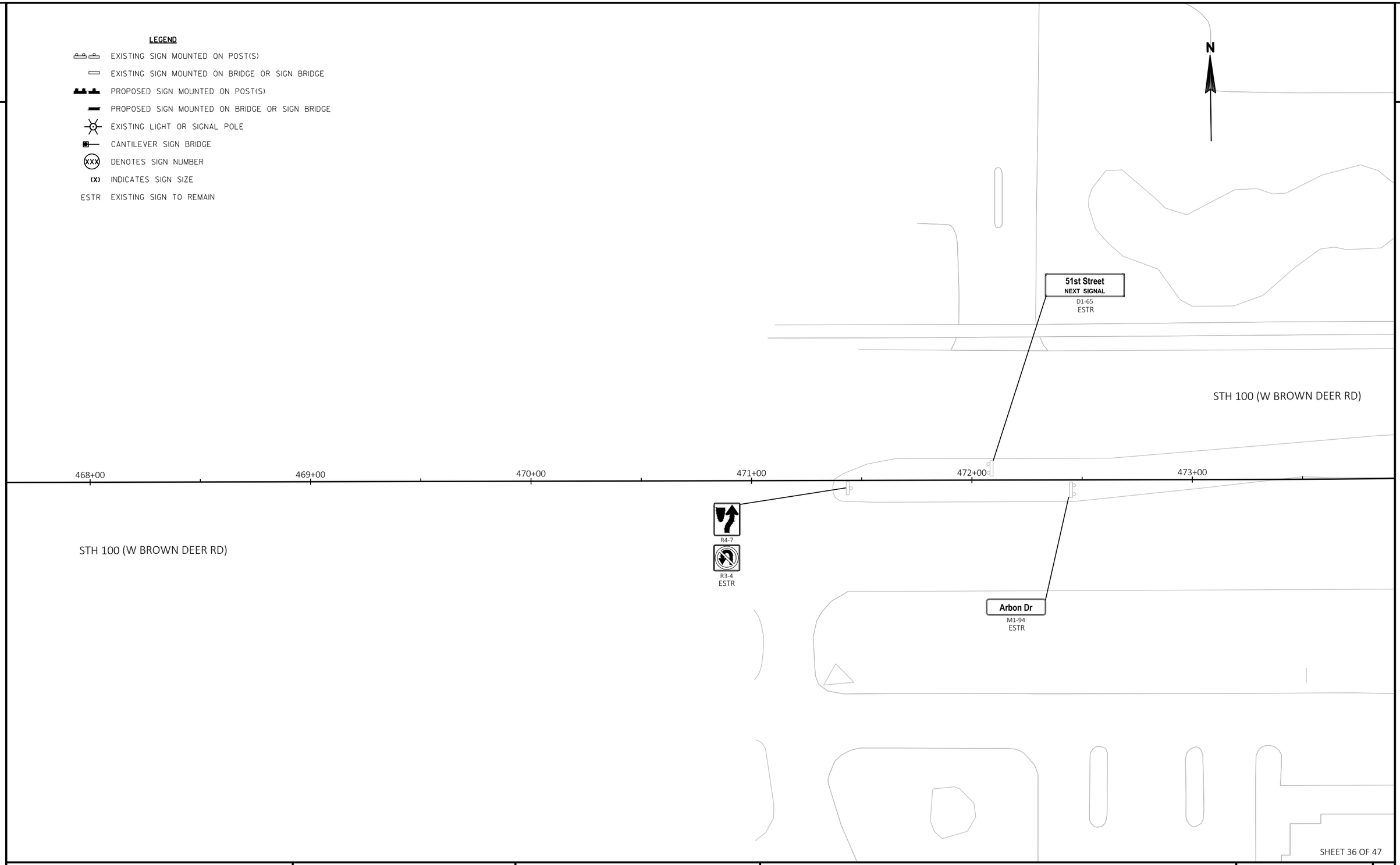
PLOT DATE : 3/17/2021 1:24 PM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN



SHEET 36 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 295	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023226_16_PS.DWG
LAYOUT NAME - 023236_PS

PLOT DATE : 3/17/2021 1:24 PM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

N

N ARBON DR

STH 100 (W BROWN DEER RD)

W3-3 ESTR

SPEED LIMIT 40 R2-1 ESTR

NO PARKING ANY TIME R7-1D ESTR

462 ONE WAY R6-1R(2S)

463 STOP R1-1(3)

464 DIVIDED HIGHWAY R6-3(2S)

ONE WAY R6-2L ESTR

DO NOT ENTER R5-1 ESTR

W11-2 W16-7L ESTR

W11-2 W16-7R ESTR

474+00 475+00 476+00 477+00 478+00 479+00

STH 100 (W BROWN DEER RD)

R4-7

R3-4 6AM-9AM 3PM-6PM ESTR

BUS STOP PROPERTY OF MCTS

W11-2 W16-7R ESTR

W11-2 W16-7L ESTR

DO NOT ENTER R5-1 ESTR

ONE WAY R6-2L ESTR

NO PARKING ANY TIME R7-1D ESTR

465 ONE WAY R6-1R(2S)

466 STOP R1-1(3)

467 DIVIDED HIGHWAY R6-3(2S)

468 SPEED LIMIT 40 R2-1(2S)

SPEED LIMIT 40 R2-1 ESTR

469 W10-1(3)

W10-1 ESTR

SHEET 37 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 296	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023226_16_PS.DWG
LAYOUT NAME - 023237_PS

PLOT DATE : 3/17/2021 1:24 PM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

N

STH 100 (W BROWN DEER RD)

STH 100 (W BROWN DEER RD)

479+00 480+00 481+00 482+00 483+00 484+00

470 N Arbon Dr D1-61

471 ONE WAY R6-2L(2S)

472 R4-7(2M)

473 DO NOT ENTER R5-1 (2M)

474 R4-7 (2M)

475 NO PARKING ANY TIME R7-1D (2M)

476 DO NOT ENTER R5-1 (2M)

477 ONE WAY R6-2L(2S)

478 479 W3-3(3)

16X16 TEMPORARY ORANGE FLAGS INCIDENTAL

624 N Deerbrook Tr NEXT SIGNAL D1-65

482 483 484 485 W11-2(2M) AHEAD W16-9P(2M)

486 NO PARKING ANY TIME R7-1D (2M)

STOP R1-1 PRIVATE SIGN MOVE BY OWNER

487 BEGIN LEFT TURN LANE R3-20L (2M)

488 NO PARKING ANY TIME R7-1D (2M)

489 BEGIN LEFT TURN LANE R3-20LL (2M)

SHEET 38 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 297	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023226_16_PS.DWG
LAYOUT NAME - 023238_PS

PLOT DATE : 3/17/2021 1:24 PM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

620 N Deerbrook Tr — M1-94H MOUNT ON MAST ARM

497 STOP — R1-1F(3)

498 DIVIDED HIGHWAY — R6-3(2S) MOUNT ON SIGNAL POLE

622 100 W Brown Deer Rd — M1-94S MOUNT ON MAST ARM

493 ONE WAY — R6-2L(2S) MOUNT ON SIGNAL POLE

492 R R — W10-1(3)

NO MOTOR VEHICLES 499 — R5-3(2S)

SPEED LIMIT 40 490 491 — R2-1(2M)

N DEERBROOK TRAIL ONLY — 40'

STOP 503 504 505 — R1-1F(3) MOUNT ON SIGNAL POLE

NO PARKING ANY TIME 507 — R7-1D(2M)

508 509 R R — W10-1(3)

BEGIN LEFT TURN LANE 510 — R3-20LL(2M)

501 502 DO NOT ENTER — R5-1(2M) MOUNT ON SIGNAL POLE

STH 100 (W BROWN DEER RD)

45'

500 — R4-7(2M) MOUNT ON SIGNAL POLE

485+00 | 486+00 | 487+00 | 488+00 | 489+00 | 490+00

DO NOT ENTER 521 522 — R5-1(2M) MOUNT ON SIGNAL POLE

STREET NAME SIGN
MOVE BY VILLAGE
DO NOT PLACE ON
WISDOT SIGN POST

N DEERBROOK TRAIL ONLY — 40'

STOP 523 525 526 — R1-1F(3) MOUNT ON SIGNAL POLE

SPEED LIMIT 40 529 530 — R2-1(2M)

OAK LEAF TRAIL 524 — MOVE

623 100 W Brown Deer Rd — M1-94S MOUNT ON MAST ARM

STOP 518 — R1-1F(3)

DIVIDED HIGHWAY 519 — R6-3(2S) MOUNT ON SIGNAL POLE

520 — R4-7(2M) MOUNT ON SIGNAL POLE

NO PARKING ANY TIME 516 — R7-1D(2M)

ONE WAY 517 — R6-2L(2S) MOUNT ON SIGNAL POLE

M2-1 JCT M1-6 57 515 515A — J1-1(2M)

621 N Deerbrook Tr — M1-94H MOUNT ON MAST ARM

M3-1 NORTH SOUTH M3-3
M1-6 57 57 M1-6
M5-1L M5-1R
J2-2 (2M)
513 514

W3-3(3) 511 512

SHEET 39 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 298 E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023226_16_PS.DWG
LAYOUT NAME - 023239_PS

PLOT DATE : 3/17/2021 1:24 PM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

N

531 BEGIN LEFT TURN LANE R3-20L (2M)

532 ONE WAY R6-1R (2S)

533 STOP R1-1 (3)

534 RIGHT TURN ONLY R3-53R (2S)

535 ONE WAY R6-2R (2S)

538 539 W3-3 (3)

16X16 TEMPORARY ORANGE FLAGS INCIDENTAL

540 NO PARKING ANY TIME R7-1D (2M)

541 ADOPT A HIGHWAY I55-56 MOVE

542 543 SPEED LIMIT 40 R2-1 (2M)

613 614 R9-3A (2S), R9-3BL (2S)

625 N Deerbrook Tr NEXT SIGNAL D1-65

N DEERWOOD DR

STH 100 (W BROWN DEER RD)

STREET NAME SIGNS MOVE BY VILLAGE

491+00 492+00 493+00 494+00 495+00 496+00

551 ONE WAY R6-2R (2S)

554 N Green Bay Rd NEXT SIGNAL D1-65

555 NO PARKING ANY TIME R7-1D (2M)

552 DO NOT ENTER R5-1 (2M)

553 ALTERNATE EAST INTERSTATE 94 MB4-1, MB3-2, M1-1, MB6-1, J3-1 (2M)

615 617 616 618 R9-3A (2S), R9-3BR (2S)

547 NORTH 57 M3-1, M1-6, M6-1, J3-1 (2M)

548 ONE WAY R6-1R (2S)

549 STOP R1-1 (3)

550 RIGHT TURN ONLY R3-53R (2S)

546 SOUTH 57 M3-3, M1-6, M6-1, J3-1 (2M)

545 BEGIN LEFT TURN LANE R3-20L (2M)

544 BEGIN LEFT TURN LANE R3-20LL (2M)

SIGN

SHEET 40 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 299 E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023226_16_PS.DWG
LAYOUT NAME - 023240_PS

PLOT DATE : 3/17/2021 1:24 PM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

556 WEST 100 M3-4 M1-6 J4-1(2M)

557 DIVIDED HIGHWAY R6-3(2S)

558 STOP R1-1F(3) MOUNT ON SIGNAL POLE

559 57 N Green Bay Rd M1-94S (BROWN BACKGROUND) MOUNT ON MAST ARM

560 R4-7(2M) MOUNT ON SIGNAL POLE

561 DO NOT ENTER R5-1(2M) MOUNT ON SIGNAL POLE

562

563 STOP R1-1F(3) MOUNT ON SIGNAL POLE

564 W11-2(2M)

565 W16-7L(2M)

566 DIVIDED HIGHWAY R6-3(2S)

567 STOP R1-1F(3) MOUNT ON SIGNAL POLE

568

569

570 W12-1D(2S) 2' MOUNT HEIGHT

571 ONLY ONLY R3-8 LL(2S)

572 57 N Green Bay Rd M1-94S (BROWN BACKGROUND) MOUNT ON MAST ARM

573 R4-7(2M) MOUNT ON SIGNAL POLE

574 DIVIDED HIGHWAY R6-3(2S)

575 STOP R1-1F(3) MOUNT ON SIGNAL POLE

576 Kildeer Ct NEXT SIGNAL D1-65

577 EAST 100 M3-2 M1-6 J4-1 (2M)

578 BEGIN LEFT TURN LANE R3-20L(2M)

579 ONLY ONLY R3-8 LL(2S)

580 W12-1D(2S) 2' MOUNT HEIGHT

581 DIVIDED HIGHWAY R6-3(2S)

582 STOP R1-1F(3) MOUNT ON SIGNAL POLE

583

584

585 STOP R1-1F(3) MOUNT ON SIGNAL POLE

586 W11-2(2M)

587 W16-7L(2M)

588 DO NOT ENTER R5-1(2M) MOUNT ON SIGNAL POLE

589

SEE SHEET 4

SEE SHEET 4

STH 57 (N GREENBAY RD)

STH 57 (N GREENBAY RD)

STH 100 (W BROWN DEER RD)

STH 100 (W BROWN DEER RD)

ONLY

45'

30'

121+00

120+00

496+00

497+00

498+00

499+00

500+00

501+00

N

SHEET 41 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 300	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023226_16_PS.DWG
LAYOUT NAME - 023241_PS

PLOT DATE : 3/17/2021 1:25 PM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

590 BEGIN LEFT TURN LANE — R3-20LL (2M)

591 ALTERNATE MB4-1 / NORTH MB3-1 / INTERSTATE 43 M1-1 / MB6-1 — J3-1 (2M)

592 NORTH M3-1 / 57 M1-6 / M6-1 — J3-1 (2M)

593 BEGIN LEFT TURN LANE — R3-20L (2M)

594 ALTERNATE MB4-1 / SOUTH M3-3 / SOUTH MB3-3 / 57 M1-6 / INTERSTATE 43 M1-1 / M6-1 / MB6-1 — J3-2 (2M)

595 SPEED LIMIT 40 — R2-1 (2M)

596 N Green Bay Rd NEXT SIGNAL — D1-65

597 STOP — R1-1F ESTR

598 NO PARKING ANY TIME — R7-1D (2M)

N Kildeer Ct — M1-94H ESTR

ONE WAY — R6-2L ESTR

N KILDEER CT

STH 100 (W BROWN DEER RD)

502+00 503+00 505+00 506+00 507+00

R4-7 ESTR

LEFT TURN YIELD ON FLASHING YELLOW ARROW — R10-50L ESTR

DO NOT ENTER — R5-1 ESTR

STOP — R1-1F ESTR

599 DO NOT ENTER — R5-1 (2M) MOUNT ON SIGNAL POLE

600 STOP — R1-1F (3) MOUNT ON SIGNAL POLE

601 BEGIN LEFT TURN LANE — R3-20LL (2M)

602 ALTERNATE MB4-1 / INTERSTATE 43 M1-1 — J4-1 (2M)

603 ADOPT A HIGHWAY — I55-56 MOVE

604 NO PARKING ANY TIME — R7-1D (2M)

N KILDEER CT

SHEET 42 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 301	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023226_16_PS.DWG
LAYOUT NAME - 023242_PS

PLOT DATE : 3/17/2021 1:25 PM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

N

INL

N KILDEER CT

W Brown Deer Rd
ESTR

LEFT TURN YIELD ON FLASHING YELLOW ARROW
R10-50L
ESTR

DO NOT ENTER
R5-1
ESTR

STOP
R1-1F
ESTR

R4-7
ESTR

LEFT TURN LANE
R3-56L
ESTR

606
MB4-1 ALTERNATE
MB3-1 NORTH
M1-1 INTERSTATE 41
MB6-1
ALTERNATE M4-1
NORTH M3-1
41 M1-4
45 M1-4
M6-1

Brown Deer
VILLAGE GOVERNMENT
ORIGINAL VILLAGE DISTRICT
VILLAGE PARK/SWIM POND
SCHOOL/LIBRARY CAMPUS
ESTR
PROPERTY OF VILLAGE

607
ALTERNATE MB4-1
SOUTH MB3-3
INTERSTATE 43 M1-1
USE LEFT LANE MB4-20L
J2-2(2M)

608
M3-3 SOUTH NORTH M3-1
M1-6 57 57 M1-6
M4-20L USE LEFT LANE
USE RIGHT LANE M4-20R
J2-2(2M)

NO PARKING ANY TIME
R7-1D
ESTR

LEFT TURN LANE
R3-55L
ESTR

507+00
508+00
509+00
510+00
511+00
512+00

STH 100 (W BROWN DEER RD)

N Kildeer Ct
M1-94H
ESTR

25'

605
W Brown Deer Rd
MOVE
VILLAGE PERMIT SIGN
MOUNT ON MAST ARM

ONE WAY
R6-2L
ESTR

NO PARKING ANY TIME
R7-1D
ESTR

STOP
R1-1F
ESTR

SPEED LIMIT 45
R2-1
ESTR

NO PARKING ANY TIME
R7-1D
ESTR

N KILDEER CT

SHEET 43 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 302	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023226_16_PS.DWG
LAYOUT NAME - 023243_PS

PLOT DATE : 3/17/2021 1:25 PM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

N

M2-1 JCT
M1-6 57 609 610
J1-1(2M)

Kildeer Ct
NEXT SIGNAL
D1-65
ESTR

W3-3
ESTR

VILLAGE OF BROWN DEER WELCOME SIGN
ESTR
PROPERTY OF VILLAGE

MILWAUKEE RIVER

STOP
R1-1
ESTR

STREET NAME SIGNS

N UPPER RIVER RD

MH

STH 100 (W BROWN DEER RD)

R4-7
ESTR

512+00 513+00 514+00 515+00 516+00 517+00

STH 100 (W BROWN DEER RD)

LOCAL SIGNS
ESTR
PROPERTY OF VILLAGE

MILWAUKEE RIVER

SPEED LIMIT 45
R2-1
ESTR

DO NOT ENTER
R5-1
ESTR

MH

SHEET 44 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 303 E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023226_16_PS.DWG
LAYOUT NAME - 023244_PS

PLOT DATE : 3/17/2021 1:25 PM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

N

N UPPER RIVER RD

DO NOT ENTER
R5-1
ESTR

STH 100 (W BROWN DEER RD)

518+00 519+00 520+00 521+00 522+00 523+00

611
R4-7(2M)

ONE WAY
R6-2L
ESTR

NO PARKING ANY TIME
R7-1D
ESTR

STH 100 (W BROWN DEER RD)

SHEET 45 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 304	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023226_16_PS.DWG
LAYOUT NAME - 023245_PS

PLOT DATE : 3/17/2021 1:25 PM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

N

MH

INL

STH 100 (W BROWN DEER RD)

523+00 524+00 525+00 526+00 527+00 528+00

STH 100 (W BROWN DEER RD)

NO PARKING ANY TIME
R7-1D
ESTR

SPEED LIMIT 45
R2-1
ESTR

SHEET 46 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 305	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023226_16_PS.DWG
LAYOUT NAME - 023246_PS

PLOT DATE : 3/17/2021 1:25 PM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

N

SPEED LIMIT 45
R2-1
ESTR

R4-7
ESTR

MH

MH

STH 100

INL

STH 100 (W BROWN DEER RD)

528+00 529+00 530+00 531+00 532+00 533+00 534+00

STH 100 (W BROWN DEER RD)

STH 100

INL

INL

INL

2

SHEET 47 OF 47

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 306	E

FILE NAME : C:\CIVIL 3D PROJECTS\22700400\SIGN\023226_16_PS.DWG
LAYOUT NAME - 023247_PS

PLOT DATE : 3/17/2021 1:25 PM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42





N

LEGEND

SXX-XXXX — WISDOT OWNED TRAFFIC SIGNAL

① INSTALL TEMPORARY TRAFFIC SIGNAL

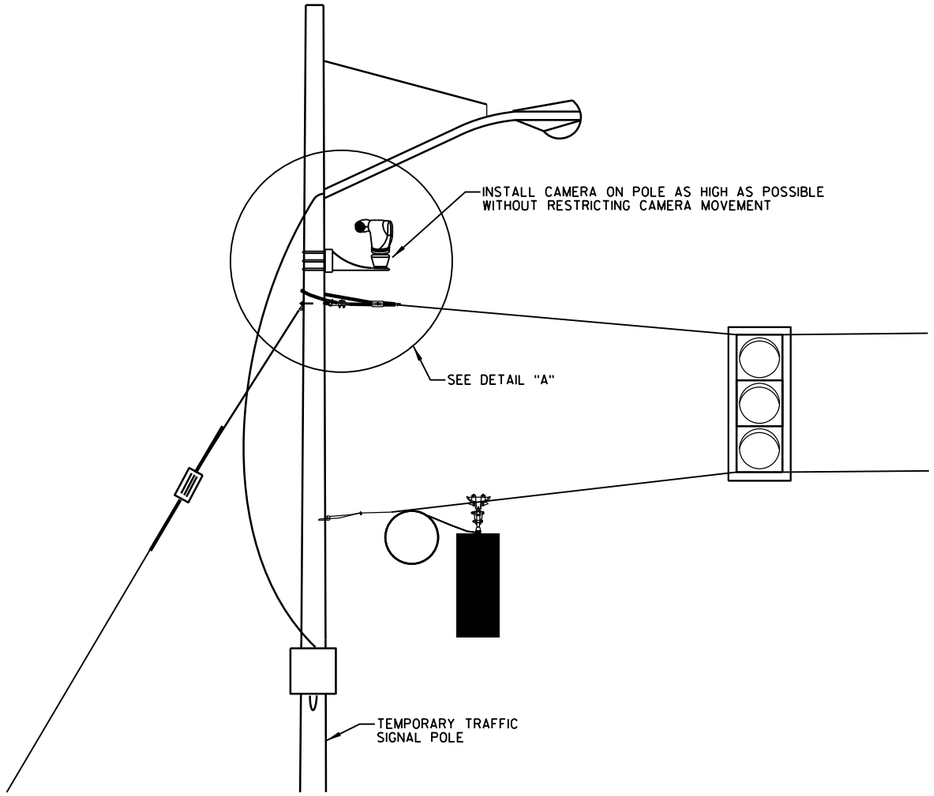
② REMOVE TEMPORARY TRAFFIC SIGNAL UPON PROJECT COMPLETION

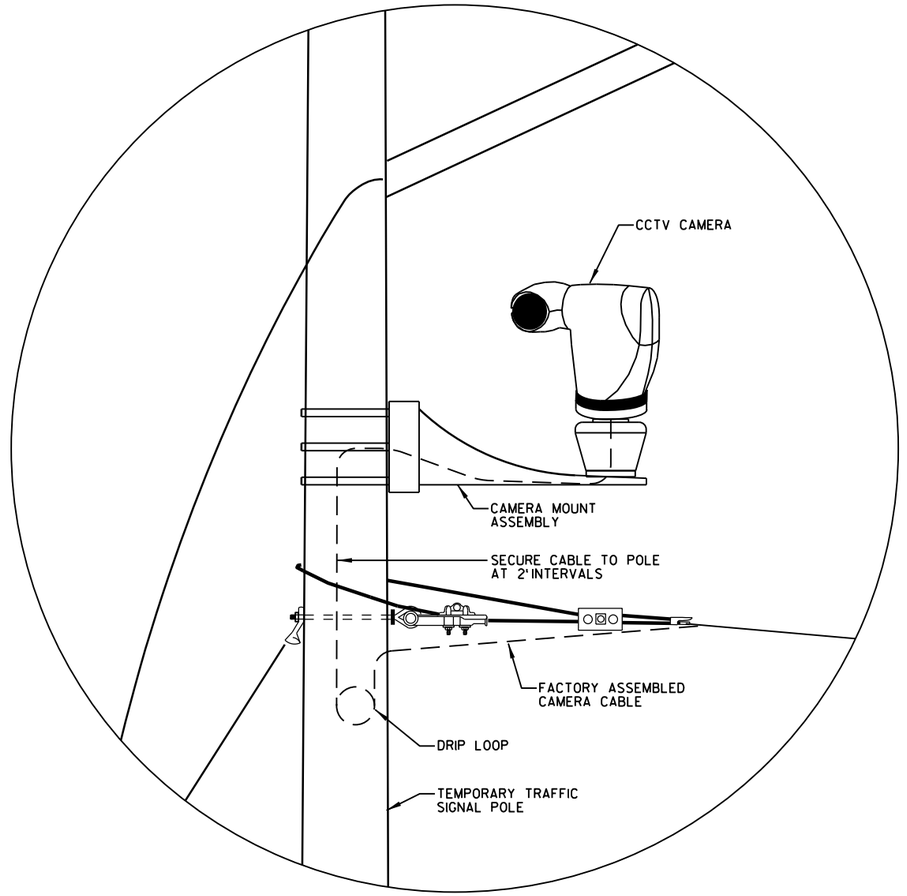
PROJECT NO: 2270-04-70	HWY: STH 57/100	COUNTY: MILWAUKEE	TEMPORARY TRAFFIC SIGNAL PROJECT OVERVIEW	SHEET 307	E

FILE NAME : I:\64008_STH_57\22700400\SIG\OVERVIEW\2270-04-00_SP_PO_TMP.DWG
LAYOUT NAME - SP_PO_TMP

PLOT DATE : 3/29/2021 11:54 AM PLOT BY : ALICIA DOUGHERTY PLOT NAME : PLOT SCALE : 1 IN:500 FT

2





DETAIL "A"

CCTV MOUNTING DETAIL
(TEMPORARY TRAFFIC SIGNAL MOUNT)

NOT TO SCALE

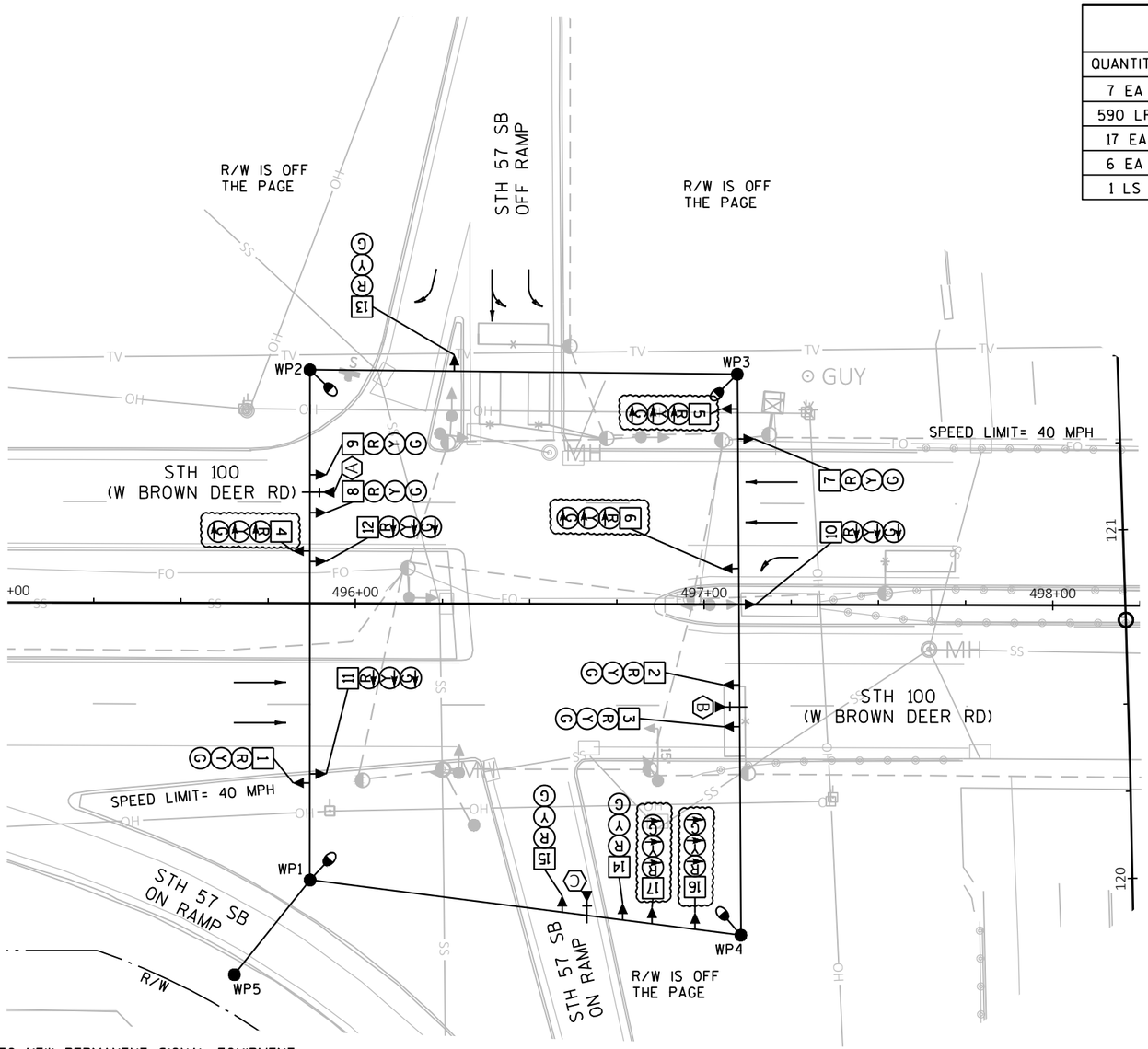
PROJECT NO: 2270-04-70	HWY: STH 57/100	COUNTY: MILWAUKEE	TEMPORARY TRAFFIC SIGNAL DETAILS	SHEET 308	E

2

LEGEND

- SPAN WIRE
- WOOD POLE, CLASS 4
- WOOD POST OR SKID TYPE TEMPORARY
- SIGNAL HEAD, OVERHEAD MOUNT
- LUMINAIRE UNDER PERMIT TO LOCAL MUNICIPALITY
- TEMPORARY LUMINAIRE LED CATEGORY C
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- R RED ARROW
- Y YELLOW ARROW
- G GREEN ARROW
- S STOP SIGN
- X EVP DESIGNATOR
- EVP DETECTOR HEAD
- LANE DESIGNATION
- WORK AREA
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING



SUMMARY OF SELECTED ITEMS FOR INFORMATION ONLY	
QUANTITY	DESCRIPTION
7 EA	WOOD POLES, CLASS 4
590 LF	SPAN WIRE
17 EA	SIGNAL HEADS
6 EA	LIGHTING LED-C OR 250 W HPS
1 LS	TEMPORARY EVP SYSTEM

CONSTRUCTION NOTES:

1. FINAL LOCATION OF WOOD POLES, CCTV, AND SIGNAL HEADS SHALL BE DIRECTED BY THE ENGINEER.
2. POLES AND POSTS INSTALLED BEHIND CURBS SHALL BE OFFSET A MINIMUM OF 2 FEET FROM THE FACE OF CURB TO THE SIDE OF THE POST OR POLE.
3. GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
4. NO ADDITIONAL COST IF NEED TO WIRE TEMPORARY SIGNAL EQUIPMENT INTO NEW PERMANENT SIGNAL EQUIPMENT.
5. CONTRACTOR TO ADJUST TEMPORARY SIGNALS WITHIN EACH CONSTRUCTION STAGE AS DIRECTED BY THE ENGINEER TO MAINTAIN MUTCD SIGNAL REQUIREMENTS.
6. MAINTAIN PROPER TEMPORARY TRAFFIC SIGNAL CLEARANCE REQUIREMENTS FOR ALL STAGES OF CONSTRUCTION.
7. CONTRACTOR SHALL COORDINATE WITH THE WISDOT ELECTRICAL FIELD UNIT, (414) 266-1170, 5 WORKING DAYS PRIOR TO BEGINNING ANY WORK AT THE INTERSECTION.
8. ANY KNOCKDOWNS TO PERMANENT/TEMPORARY SIGNAL EQUIPMENT SHALL BE REPLACED BY THE CONTRACTOR.
9. ALL NEAR RIGHT TRAFFIC SIGNAL HEADS SHALL BE PLACED BETWEEN THE SPAN WIRE AND TETHER WIRE.
10. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
11. ALL EXISTING SIGNAL HEADS SHALL BE REMOVED, COVERED OR TURNED AWAY FROM TRAFFIC IMMEDIATELY AFTER TURNING ON TEMPORARY SIGNALS.

WISCONSIN
ALICIA M. DOUGHERTY
E-43022
PEWAUKEE, WI
PROFESSIONAL ENGINEER
06/15/2021

TRAFFIC CONTROL SIGNAL
STH 57 & STH 100 SB RAMPS
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO. S40-1163 CONTROLLER TYPE: TEMP

REGION CONTACT: JOYCE MURPHY
DESIGNED BY: HNTB
REVISED BY:

PAGE 1 OF 11

PROJECT NO: 2270-04-70	HWY: STH 57/100	COUNTY: MILWAUKEE	TEMPORARY TRAFFIC SIGNAL PLAN - PRE-STAGE 1	SHEET 309	E

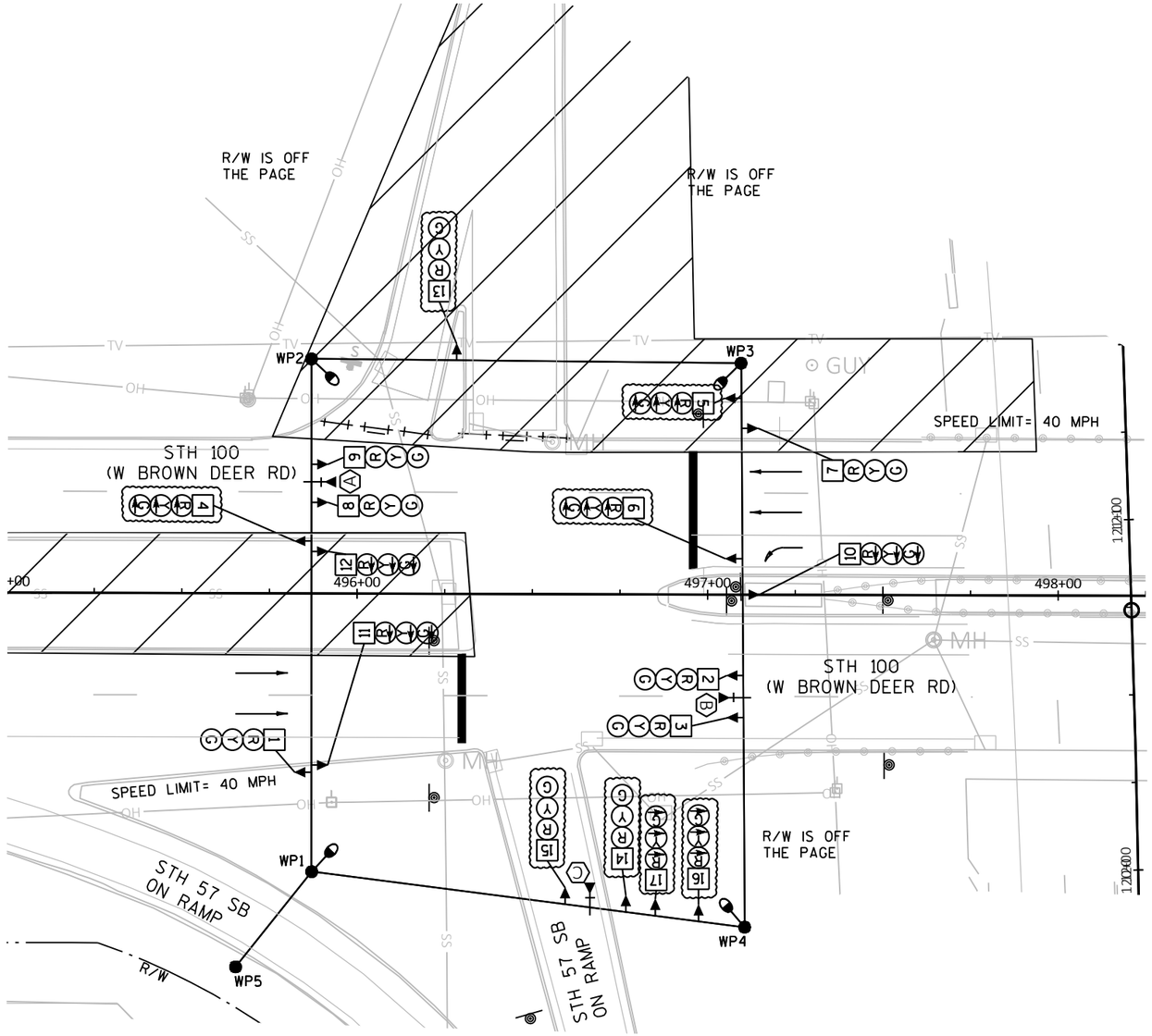
FILE NAME : I:\64008_STH_57\22700400\SIG\S40-1163\S40-1163_SB RAMP TMP_PRESTAGE.DWG
LAYOUT NAME - S40-1163_tmpprestage
PLOT DATE : 6/9/2021 11:35 AM PLOT BY : ALICIA DOUGHERTY PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

LEGEND

- SPAN WIRE
- WOOD POLE, CLASS 4
- WOOD POST OR SKID TYPE TEMPORARY
- SIGNAL HEAD, OVERHEAD MOUNT
- LUMINAIRE UNDER PERMIT TO LOCAL MUNICIPALITY
- TEMPORARY LUMINAIRE LED CATEGORY C
- XX — SIGNAL HEAD NUMBER
- R — RED CIRCULAR INDICATOR
- Y — YELLOW CIRCULAR INDICATOR
- G — GREEN CIRCULAR INDICATOR
- R — RED ARROW
- Y — YELLOW ARROW
- G — GREEN ARROW
- S — STOP SIGN
- X — EVP DESIGNATOR
- EVP DETECTOR HEAD
- LANE DESIGNATION
- WORK AREA
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING



CONSTRUCTION NOTES:

1. FINAL LOCATION OF WOOD POLES, CCTV, AND SIGNAL HEADS SHALL BE DIRECTED BY THE ENGINEER.
2. POLES AND POSTS INSTALLED BEHIND CURBS SHALL BE OFFSET A MINIMUM OF 2 FEET FROM THE FACE OF CURB TO THE SIDE OF THE POST OR POLE.
3. GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
4. NO ADDITIONAL COST IF NEED TO WIRE TEMPORARY SIGNAL EQUIPMENT INTO NEW PERMANENT SIGNAL EQUIPMENT.
5. CONTRACTOR TO ADJUST TEMPORARY SIGNALS WITHIN EACH CONSTRUCTION STAGE AS DIRECTED BY THE ENGINEER TO MAINTAIN MUTCD SIGNAL REQUIREMENTS.
6. MAINTAIN PROPER TEMPORARY TRAFFIC SIGNAL CLEARANCE REQUIREMENTS FOR ALL STAGES OF CONSTRUCTION.
7. CONTRACTOR SHALL COORDINATE WITH THE WISDOT ELECTRICAL FIELD UNIT, (414) 266-1170, 5 WORKING DAYS PRIOR TO BEGINNING ANY WORK AT THE INTERSECTION.
8. ANY KNOCKDOWNS TO PERMANENT/TEMPORARY SIGNAL EQUIPMENT SHALL BE REPLACED BY THE CONTRACTOR.
9. ALL NEAR RIGHT TRAFFIC SIGNAL HEADS SHALL BE PLACED BETWEEN THE SPAN WIRE AND TETHER WIRE.
10. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
11. ALL EXISTING SIGNAL HEADS SHALL BE REMOVED, COVERED OR TURNED AWAY FROM TRAFFIC IMMEDIATELY AFTER TURNING ON TEMPORARY SIGNALS.

TRAFFIC CONTROL SIGNAL
STH 57 & STH 100 SB RAMPS
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO. S40-1163 — CONTROLLER TYPE: TEMP

REGION CONTACT: JOYCE MURPHY
DESIGNED BY: HNTB
REVISED BY:

PAGE 2 OF 11

PROJECT NO: 2270-04-70	HWY: STH 57/100	COUNTY: MILWAUKEE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1	SHEET 310	E

FILE NAME : I:\64008_STH_57\22700400\SIG\S40-1163\S40-1163_SB RAMP TMP_S1.DWG
LAYOUT NAME - S40-1163_tmpS1
PLOT DATE : 6/8/2021 2:34 PM
PLOT BY : MATTHEW MAY
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

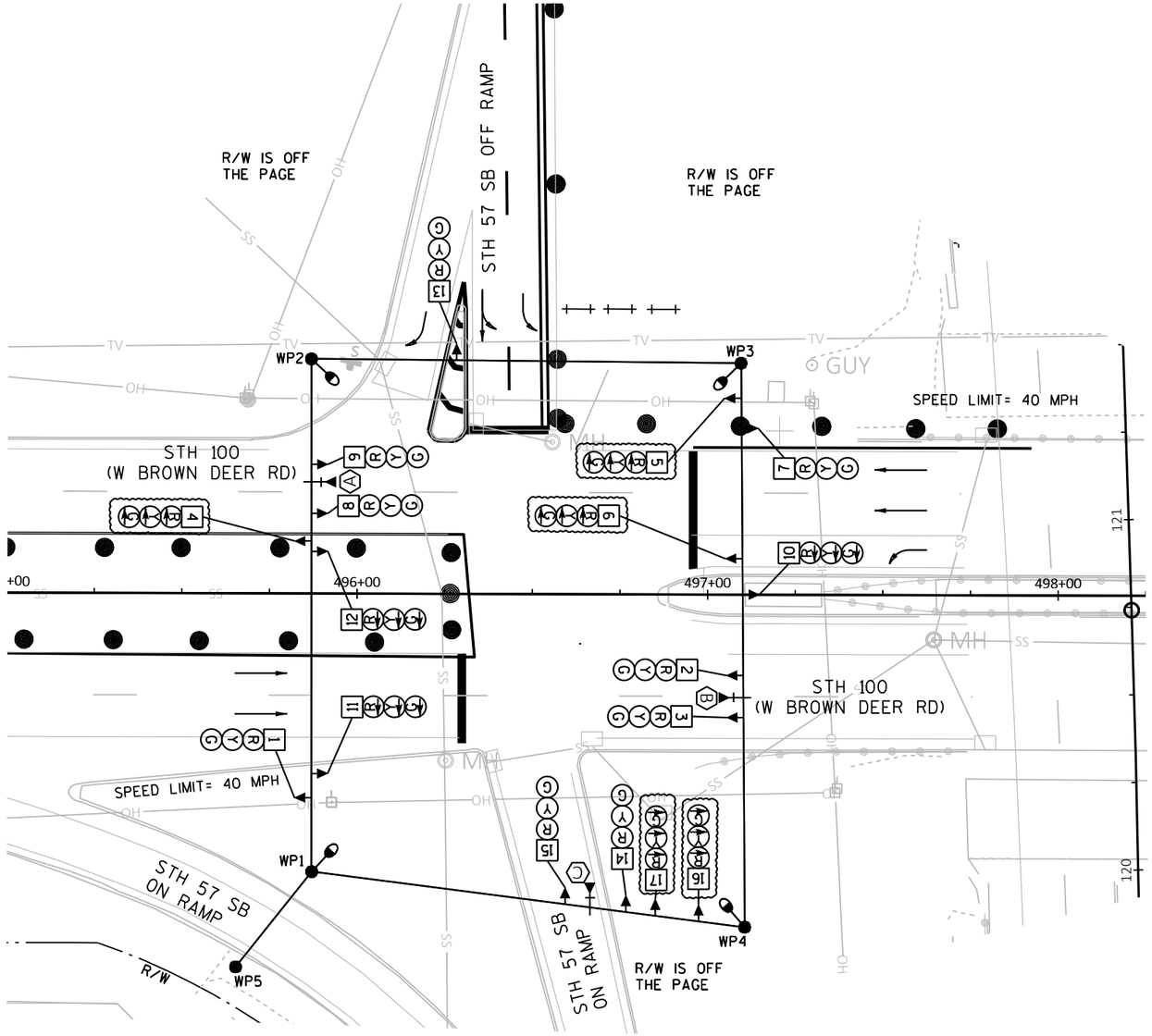
WISDOT/CADDS SHEET 42

2

LEGEND

- SPAN WIRE
- WOOD POLE, CLASS 4
- WOOD POST OR SKID TYPE TEMPORARY
- SIGNAL HEAD, OVERHEAD MOUNT
- LUMINAIRE UNDER PERMIT TO LOCAL MUNICIPALITY
- TEMPORARY LUMINAIRE LED CATEGORY C
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- R RED ARROW
- Y YELLOW ARROW
- G GREEN ARROW
- S STOP SIGN
- X EVP DESIGNATOR
- EVP DETECTOR HEAD
- LANE DESIGNATION
- WORK AREA
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING



CONSTRUCTION NOTES:

1. FINAL LOCATION OF WOOD POLES, CCTV, AND SIGNAL HEADS SHALL BE DIRECTED BY THE ENGINEER.
2. POLES AND POSTS INSTALLED BEHIND CURBS SHALL BE OFFSET A MINIMUM OF 2 FEET FROM THE FACE OF CURB TO THE SIDE OF THE POST OR POLE.
3. GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
4. NO ADDITIONAL COST IF NEED TO WIRE TEMPORARY SIGNAL EQUIPMENT INTO NEW PERMANENT SIGNAL EQUIPMENT.
5. CONTRACTOR TO ADJUST TEMPORARY SIGNALS WITHIN EACH CONSTRUCTION STAGE AS DIRECTED BY THE ENGINEER TO MAINTAIN MUTCD SIGNAL REQUIREMENTS.
6. MAINTAIN PROPER TEMPORARY TRAFFIC SIGNAL CLEARANCE REQUIREMENTS FOR ALL STAGES OF CONSTRUCTION.
7. CONTRACTOR SHALL COORDINATE WITH THE WISDOT ELECTRICAL FIELD UNIT, (414) 266-1170, 5 WORKING DAYS PRIOR TO BEGINNING ANY WORK AT THE INTERSECTION.
8. ANY KNOCKDOWNS TO PERMANENT/TEMPORARY SIGNAL EQUIPMENT SHALL BE REPLACED BY THE CONTRACTOR.
9. ALL NEAR RIGHT TRAFFIC SIGNAL HEADS SHALL BE PLACED BETWEEN THE SPAN WIRE AND TETHER WIRE.
10. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.

TRAFFIC CONTROL SIGNAL
STH 57 & STH 100 SB RAMPS
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO. S40-1163 CONTROLLER TYPE: TEMP

REGION CONTACT: JOYCE MURPHY
DESIGNED BY: HNTB
REVISED BY:

PAGE 3 OF 11

PROJECT NO: 2270-04-70	HWY: STH 57/100	COUNTY: MILWAUKEE	TEMPORARY TRAFFIC SIGNAL PLAN - WINTER SHUTDOWN 1	SHEET 311	E

FILE NAME : I:\64008_STH_57\22700400\SIG\S40-1163\S40-1163_SB RAMP TMP_S1W.DWG
LAYOUT NAME - S40-1163_tmpS1W
PLOT DATE : 6/8/2021 2:36 PM PLOT BY : MATTHEW MAY PLOT NAME : PLOT SCALE : 1 IN:40 FT

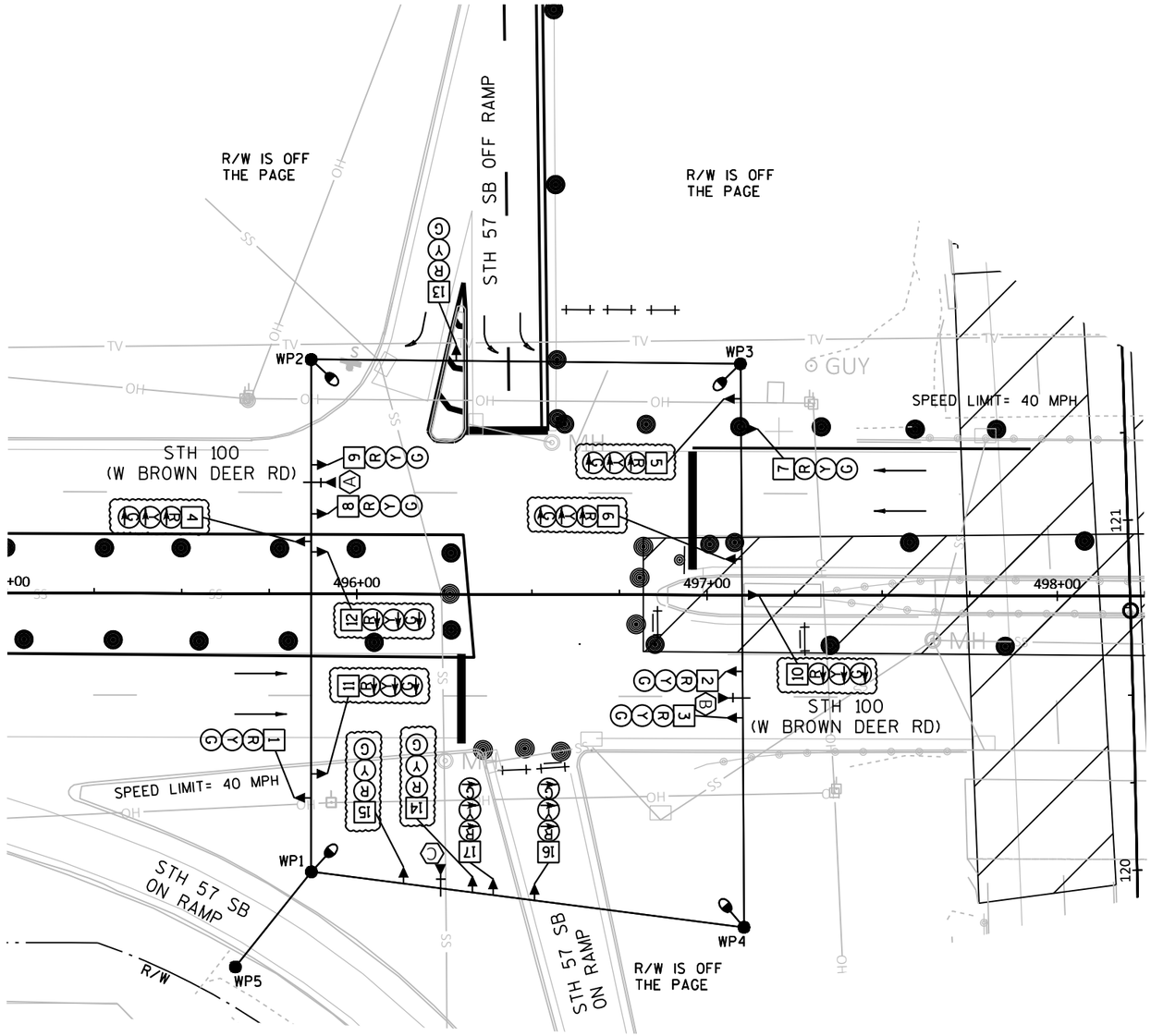
WISDOT/CADDS SHEET 42

2

LEGEND

- SPAN WIRE
- WOOD POLE, CLASS 4
- WOOD POST OR SKID TYPE TEMPORARY
- SIGNAL HEAD, OVERHEAD MOUNT
- LUMINAIRE UNDER PERMIT TO LOCAL MUNICIPALITY
- TEMPORARY LUMINAIRE LED CATEGORY C
- XX — SIGNAL HEAD NUMBER
- R — RED CIRCULAR INDICATOR
- Y — YELLOW CIRCULAR INDICATOR
- G — GREEN CIRCULAR INDICATOR
- R — RED ARROW
- Y — YELLOW ARROW
- G — GREEN ARROW
- S — STOP SIGN
- X — EVP DESIGNATOR
- EVP DETECTOR HEAD
- LANE DESIGNATION
- WORK AREA
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING



CONSTRUCTION NOTES:

1. FINAL LOCATION OF WOOD POLES, CCTV, AND SIGNAL HEADS SHALL BE DIRECTED BY THE ENGINEER.
2. POLES AND POSTS INSTALLED BEHIND CURBS SHALL BE OFFSET A MINIMUM OF 2 FEET FROM THE FACE OF CURB TO THE SIDE OF THE POST OR POLE.
3. GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
4. NO ADDITIONAL COST IF NEED TO WIRE TEMPORARY SIGNAL EQUIPMENT INTO NEW PERMANENT SIGNAL EQUIPMENT.
5. CONTRACTOR TO ADJUST TEMPORARY SIGNALS WITHIN EACH CONSTRUCTION STAGE AS DIRECTED BY THE ENGINEER TO MAINTAIN MUTCD SIGNAL REQUIREMENTS.
6. MAINTAIN PROPER TEMPORARY TRAFFIC SIGNAL CLEARANCE REQUIREMENTS FOR ALL STAGES OF CONSTRUCTION.
7. CONTRACTOR SHALL COORDINATE WITH THE WISDOT ELECTRICAL FIELD UNIT, (414) 266-1170, 5 WORKING DAYS PRIOR TO BEGINNING ANY WORK AT THE INTERSECTION.
8. ANY KNOCKDOWNS TO PERMANENT/TEMPORARY SIGNAL EQUIPMENT SHALL BE REPLACED BY THE CONTRACTOR.
9. ALL NEAR RIGHT TRAFFIC SIGNAL HEADS SHALL BE PLACED BETWEEN THE SPAN WIRE AND TETHER WIRE.
10. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.

TRAFFIC CONTROL SIGNAL
STH 57 & STH 100 SB RAMPS
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO. S40-1163 — CONTROLLER TYPE: TEMP
REGION CONTACT: JOYCE MURPHY
DESIGNED BY: HNTB
REVISED BY:
PAGE 4 OF 11

PROJECT NO: 2270-04-70	HWY: STH 57/100	COUNTY: MILWAUKEE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2	SHEET 312	E

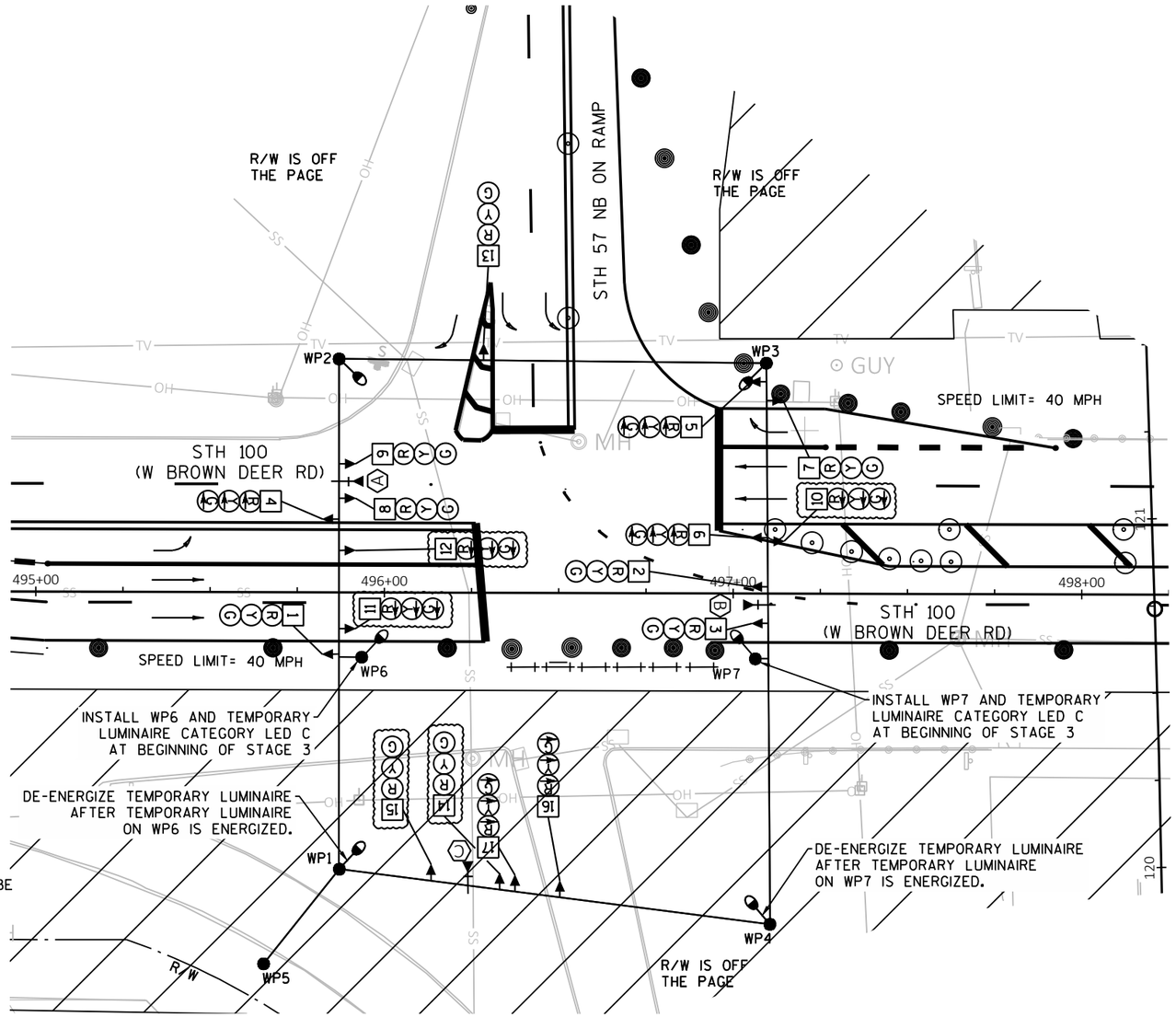
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LAYOUT NAME - S40-1163_tmpS2
PLOT DATE : 6/15/2021 3:07 PM
PLOT BY : ALICIA DOUGHERTY
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

- SPAN WIRE
- WOOD POLE, CLASS 4
- WOOD POST OR SKID TYPE TEMPORARY
- SIGNAL HEAD, OVERHEAD MOUNT
- LUMINAIRE UNDER PERMIT TO LOCAL MUNICIPALITY
- TEMPORARY LUMINAIRE LED CATEGORY C
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- R RED ARROW
- Y YELLOW ARROW
- G GREEN ARROW
- S STOP SIGN
- X EVP DESIGNATOR
- EVP DETECTOR HEAD
- LANE DESIGNATION
- WORK AREA
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING



CONSTRUCTION NOTES:

1. FINAL LOCATION OF WOOD POLES, CCTV, AND SIGNAL HEADS SHALL BE DIRECTED BY THE ENGINEER.
2. POLES AND POSTS INSTALLED BEHIND CURBS SHALL BE OFFSET A MINIMUM OF 2 FEET FROM THE FACE OF CURB TO THE SIDE OF THE POST OR POLE.
3. GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
4. NO ADDITIONAL COST IF NEED TO WIRE TEMPORARY SIGNAL EQUIPMENT INTO NEW PERMANENT SIGNAL EQUIPMENT.
5. CONTRACTOR TO ADJUST TEMPORARY SIGNALS WITHIN EACH CONSTRUCTION STAGE AS DIRECTED BY THE ENGINEER TO MAINTAIN MUTCD SIGNAL REQUIREMENTS.
6. MAINTAIN PROPER TEMPORARY TRAFFIC SIGNAL CLEARANCE REQUIREMENTS FOR ALL STAGES OF CONSTRUCTION.
7. CONTRACTOR SHALL COORDINATE WITH THE WISDOT ELECTRICAL FIELD UNIT, (414) 266-1170, 5 WORKING DAYS PRIOR TO BEGINNING ANY WORK AT THE INTERSECTION.
8. ANY KNOCKDOWNS TO PERMANENT/TEMPORARY SIGNAL EQUIPMENT SHALL BE REPLACED BY THE CONTRACTOR.
9. ALL NEAR RIGHT TRAFFIC SIGNAL HEADS SHALL BE PLACED BETWEEN THE SPAN WIRE AND TETHER WIRE.
10. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
11. INSTALL WP6 AND WP7 WITH TEMPORARY LUMINAIRE LED CATEGORY C. DE-ENERGIZE TEMPORARY LUMINAIRES ON WP1 AND WP4 UNTIL STAGE 4A.

TRAFFIC CONTROL SIGNAL
STH 57 & STH 100 SB RAMPS
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO. S40-1163 CONTROLLER TYPE: TEMP

REGION CONTACT: JOYCE MURPHY
DESIGNED BY: HNTB
REVISED BY:

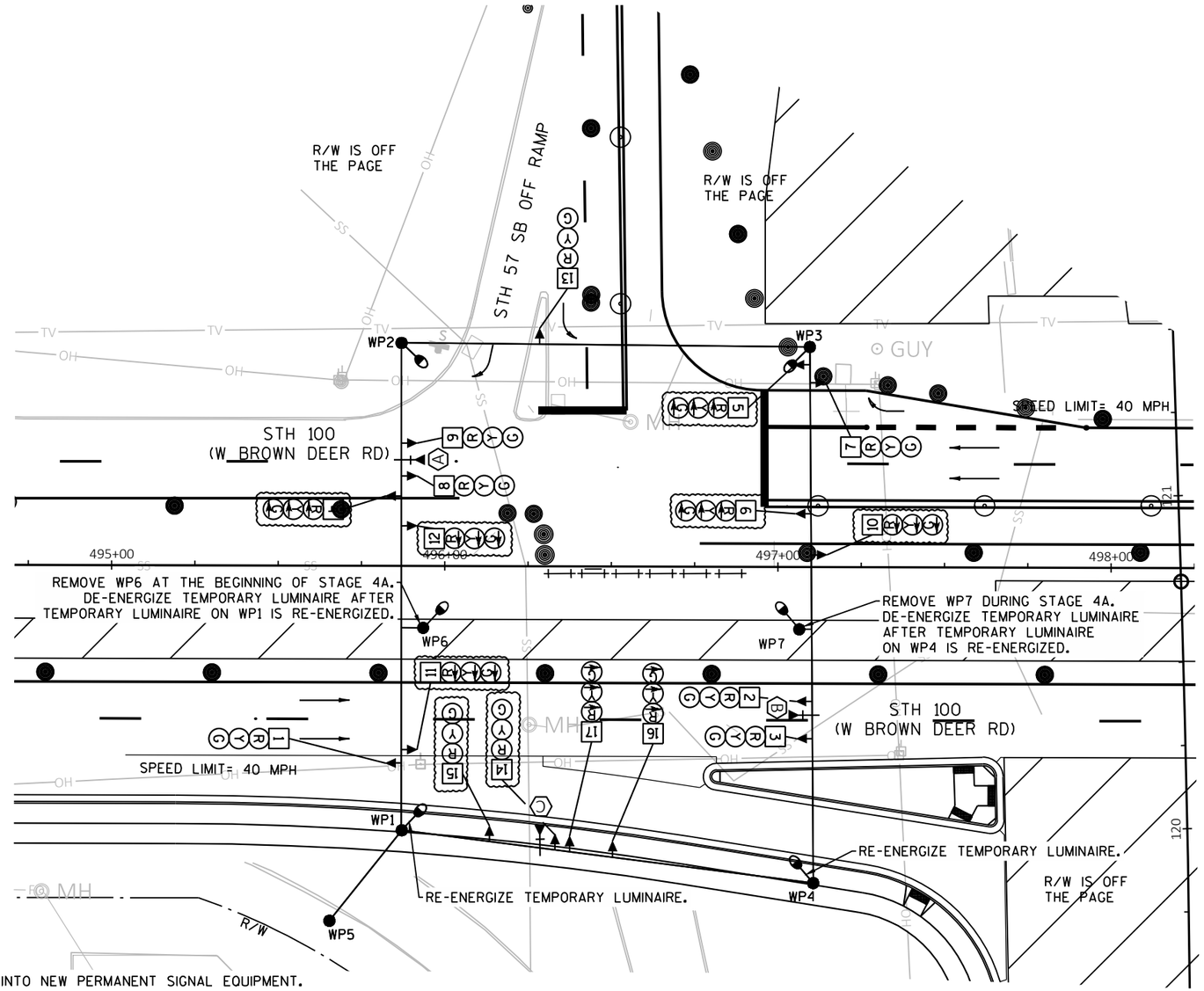
PROJECT NO: 2270-04-70	HWY: STH 57/100	COUNTY: MILWAUKEE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 3	SHEET 313	E

FILE NAME : I:\64008_STH_57\22700400\SIG\S40-1163\S40-1163_SB RAMP TMP_S3.DWG
LAYOUT NAME - S40-1163_tmpS3
PLOT DATE : 6/8/2021 2:38 PM PLOT BY : MATTHEW MAY PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

LEGEND

- SPAN WIRE
- WOOD POLE, CLASS 4
- WOOD POST OR SKID TYPE TEMPORARY
- SIGNAL HEAD, OVERHEAD MOUNT
- LUMINAIRE UNDER PERMIT TO LOCAL MUNICIPALITY
- TEMPORARY LUMINAIRE LED CATEGORY C
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- R ARROW RED ARROW
- Y ARROW YELLOW ARROW
- G ARROW GREEN ARROW
- S STOP SIGN
- X EVP DESIGNATOR
- EVP DETECTOR HEAD
- LANE DESIGNATION
- WORK AREA
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING



CONSTRUCTION NOTES:

1. FINAL LOCATION OF WOOD POLES, CCTV, AND SIGNAL HEADS SHALL BE DIRECTED BY THE ENGINEER.
2. POLES AND POSTS INSTALLED BEHIND CURBS SHALL BE OFFSET A MINIMUM OF 2 FEET FROM THE FACE OF CURB TO THE SIDE OF THE POST OR POLE.
3. GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
4. NO ADDITIONAL COST IF NEED TO WIRE TEMPORARY SIGNAL EQUIPMENT INTO NEW PERMANENT SIGNAL EQUIPMENT.
5. CONTRACTOR TO ADJUST TEMPORARY SIGNALS WITHIN EACH CONSTRUCTION STAGE AS DIRECTED BY THE ENGINEER TO MAINTAIN MUTCD SIGNAL REQUIREMENTS.
6. MAINTAIN PROPER TEMPORARY TRAFFIC SIGNAL CLEARANCE REQUIREMENTS FOR ALL STAGES OF CONSTRUCTION.
7. CONTRACTOR SHALL COORDINATE WITH THE WISDOT ELECTRICAL FIELD UNIT, (414) 266-1170, 5 WORKING DAYS PRIOR TO BEGINNING ANY WORK AT THE INTERSECTION.
8. ANY KNOCKDOWNS TO PERMANENT/TEMPORARY SIGNAL EQUIPMENT SHALL BE REPLACED BY THE CONTRACTOR.
9. ALL NEAR RIGHT TRAFFIC SIGNAL HEADS SHALL BE PLACED BETWEEN THE SPAN WIRE AND TETHER WIRE.
10. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
11. REMOVE WP6, WP7 AND TEMPORARY LUMINAIRES ASSOCIATED WITH THOSE WOOD POLES.
12. RE-ENERGIZE TEMPORARY LUMINAIRES ON WP1 AND WP4.

TRAFFIC CONTROL SIGNAL
STH 57 & STH 100 SB RAMPS
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO. S40-1163 CONTROLLER TYPE: TEMP

REGION CONTACT: JOYCE MURPHY
DESIGNED BY: HNTB
REVISED BY:

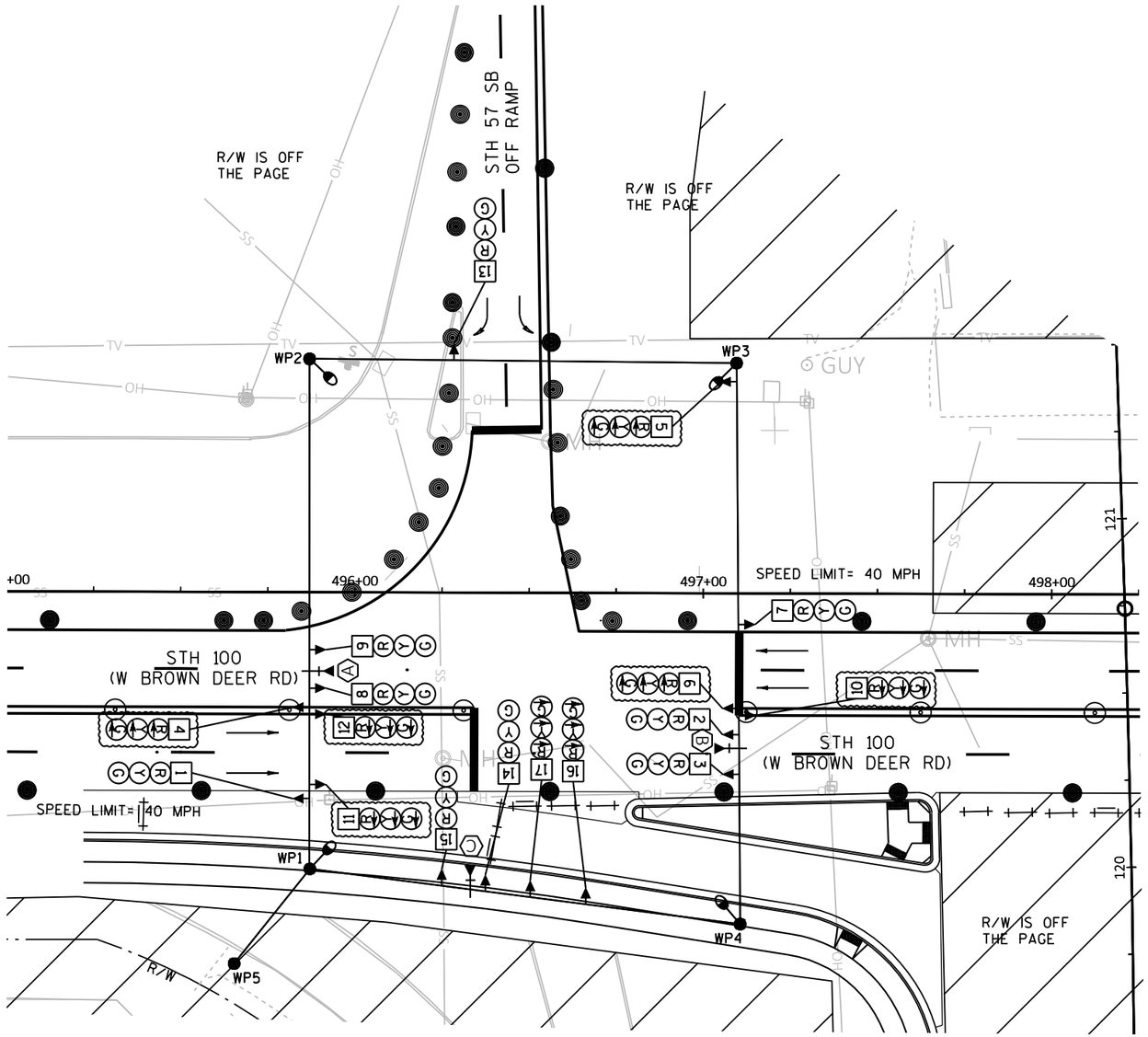
PROJECT NO: 2270-04-70	HWY: STH 57/100	COUNTY: MILWAUKEE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 4A	SHEET 314	E

FILE NAME : I:\64008_STH_57\22700400\SIG\S40-1163\S40-1163_SB RAMP TMP_S4A.DWG
LAYOUT NAME - S40-1163_tmpS4A
PLOT DATE : 6/8/2021 2:39 PM PLOT BY : MATTHEW MAY PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

LEGEND

- SPAN WIRE
- WOOD POLE, CLASS 4
- WOOD POST OR SKID TYPE TEMPORARY
- SIGNAL HEAD, OVERHEAD MOUNT
- LUMINAIRE UNDER PERMIT TO LOCAL MUNICIPALITY
- TEMPORARY LUMINAIRE LED CATEGORY C
- SIGNAL HEAD NUMBER
- RED CIRCULAR INDICATOR
- YELLOW CIRCULAR INDICATOR
- GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- YIELD SIGN
- EVP DESIGNATOR
- EVP DETECTOR HEAD
- LANE DESIGNATION
- WORK AREA
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING



CONSTRUCTION NOTES:

1. ALL TEMPORARY SIGNAL HEADS SHALL BE DE-ENERGIZED, BAGGED AND REMOVED AT THE CONCLUSION OF STAGE 4B.
2. REMOVE ALL CCTV EQUIPMENT, WOOD POLES AND TEMPORARY LUMINAIRES AT THE CONCLUSION OF STAGE 4B.
3. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.

TRAFFIC CONTROL SIGNAL
STH 57 & STH 100 SB RAMPS
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO. S40-1163 CONTROLLER TYPE: TEMP
REGION CONTACT: JOYCE MURPHY
DESIGNED BY: HNTB
REVISED BY:
PAGE 7 OF 11

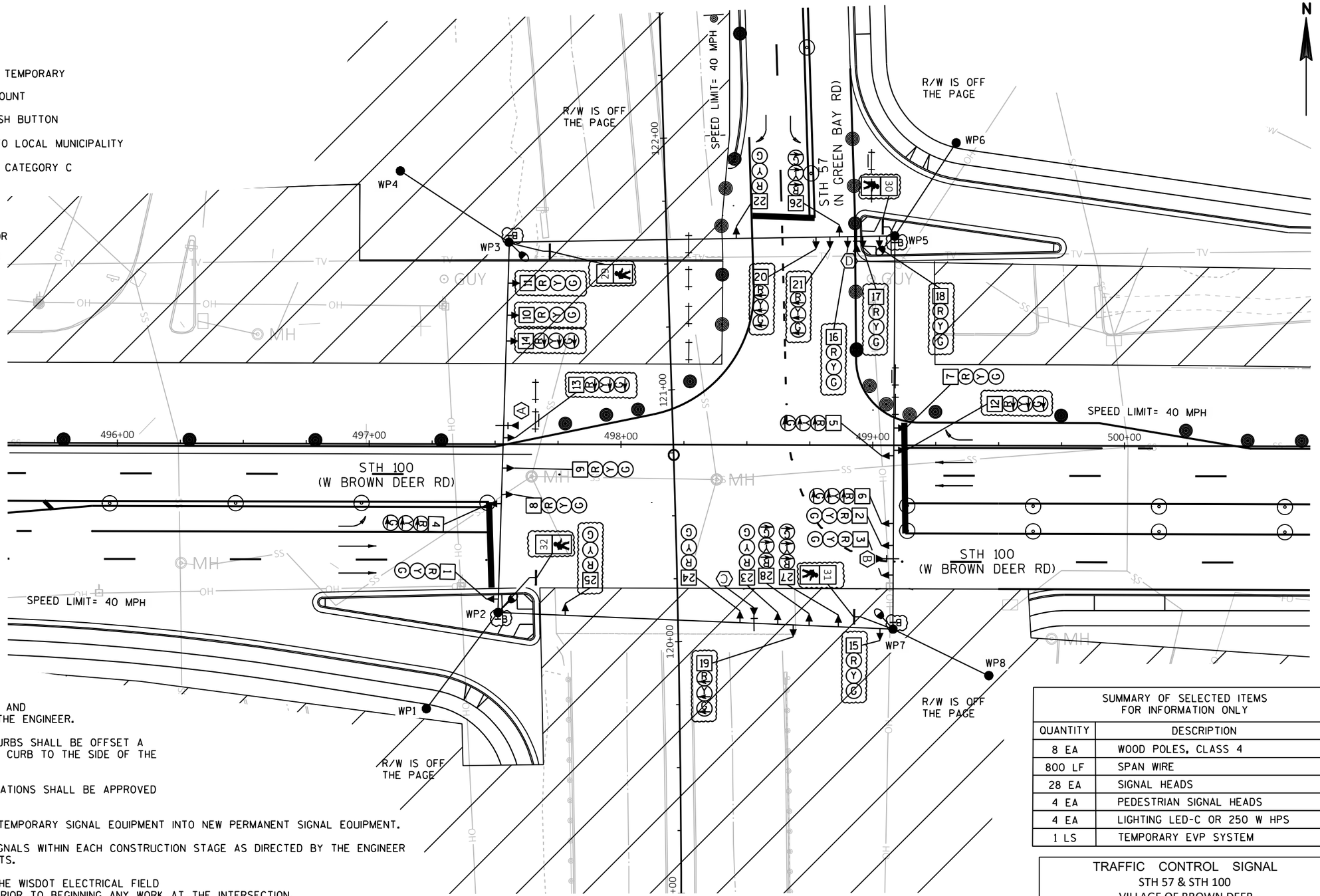
PROJECT NO: 2270-04-70	HWY: STH 57/100	COUNTY: MILWAUKEE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 4B	SHEET 315	E

FILE NAME : I:\64008_STH_57\22700400\SIG\S40-1163\S40-1163_SB RAMP TMP_S4B.DWG
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PLOT DATE : 6/8/2021 2:40 PM PLOT BY : MATTHEW MAY PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

LEGEND

- SPAN WIRE
- WOOD POLE, CLASS 4
- WOOD POST OR SKID TYPE TEMPORARY
- SIGNAL HEAD, OVERHEAD MOUNT
- PEDESTRIAN HEAD WITH PUSH BUTTON
- LUMINAIRE UNDER PERMIT TO LOCAL MUNICIPALITY
- TEMPORARY LUMINAIRE LED CATEGORY C
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- DON'T WALK INDICATOR 16"
  WALK INDICATOR 16"
- Y YIELD SIGN
- X EVP DESIGNATOR
- EVP DETECTOR HEAD
- LANE DESIGNATION
- WORK AREA
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING



CONSTRUCTION NOTES:

1. FINAL LOCATION OF WOOD POLES, CCTV, AND SIGNAL HEADS SHALL BE DIRECTED BY THE ENGINEER.
2. POLES AND POSTS INSTALLED BEHIND CURBS SHALL BE OFFSET A MINIMUM OF 2 FEET FROM THE FACE OF CURB TO THE SIDE OF THE POST OR POLE.
3. GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
4. NO ADDITIONAL COST IF NEED TO WIRE TEMPORARY SIGNAL EQUIPMENT INTO NEW PERMANENT SIGNAL EQUIPMENT.
5. CONTRACTOR TO ADJUST TEMPORARY SIGNALS WITHIN EACH CONSTRUCTION STAGE AS DIRECTED BY THE ENGINEER TO MAINTAIN MUTCD SIGNAL REQUIREMENTS.
6. CONTRACTOR SHALL COORDINATE WITH THE WISDOT ELECTRICAL FIELD UNIT, (414) 266-1170, 5 WORKING DAYS PRIOR TO BEGINNING ANY WORK AT THE INTERSECTION.
7. ANY KNOCKDOWNS TO PERMANENT/TEMPORARY SIGNAL EQUIPMENT SHALL BE REPLACED BY THE CONTRACTOR.
8. ALL NEAR RIGHT TRAFFIC SIGNAL HEADS SHALL BE PLACED BETWEEN THE SPAN WIRE AND TETHER WIRE.
9. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.

SUMMARY OF SELECTED ITEMS FOR INFORMATION ONLY

QUANTITY	DESCRIPTION
8 EA	WOOD POLES, CLASS 4
800 LF	SPAN WIRE
28 EA	SIGNAL HEADS
4 EA	PEDESTRIAN SIGNAL HEADS
4 EA	LIGHTING LED-C OR 250 W HPS
1 LS	TEMPORARY EVP SYSTEM

TRAFFIC CONTROL SIGNAL
STH 57 & STH 100
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO. S40-1163 CONTROLLER TYPE: TEMP

REGION CONTACT: JOYCE MURPHY
DESIGNED BY: HNTB
REVISED BY:

PAGE 8 OF 11

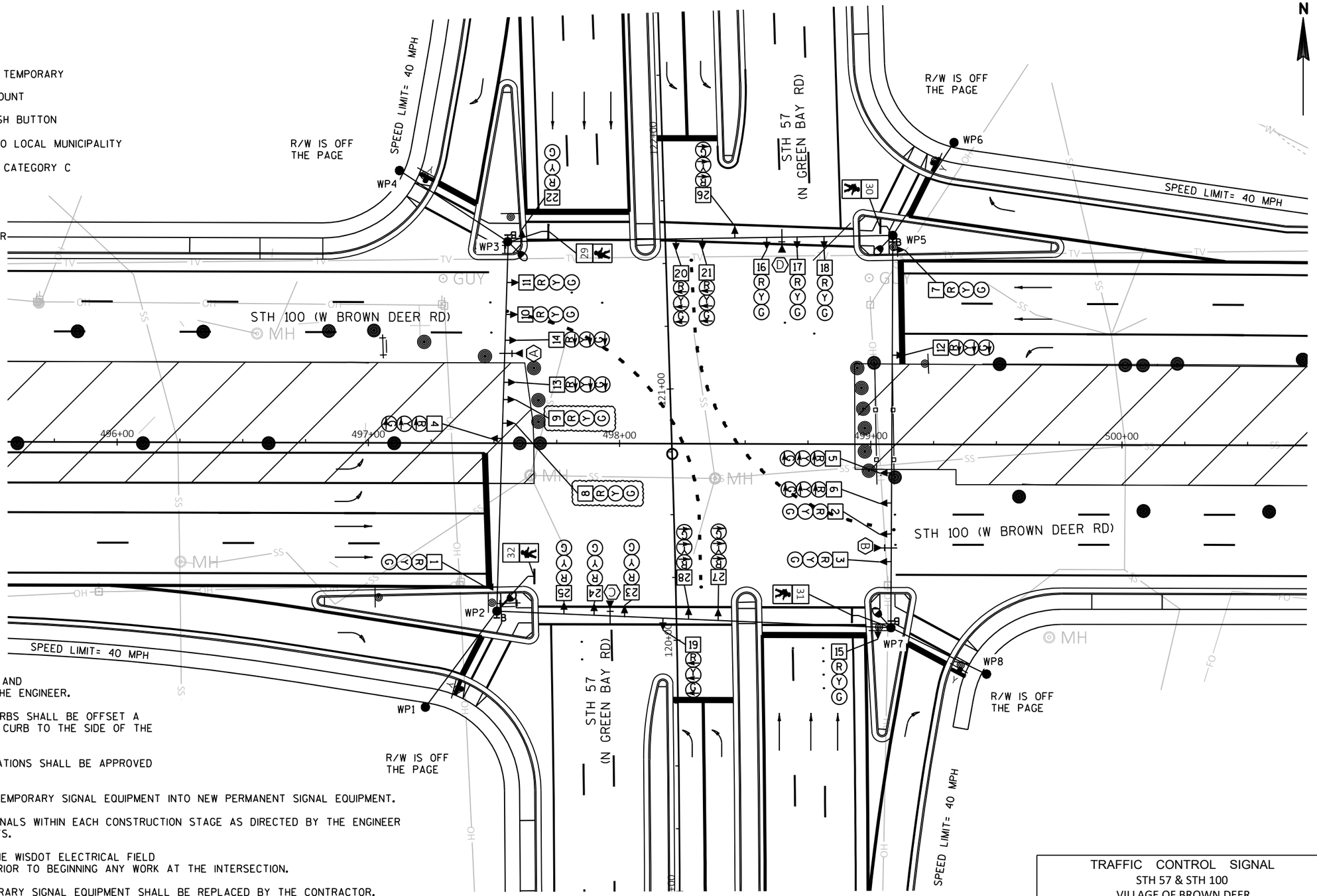
PROJECT NO: 2270-04-70	HWY: STH 57/100	COUNTY: MILWAUKEE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 5	SHEET 316	E

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PLOT DATE : 6/9/2021 11:36 AM PLOT BY : ALICIA DOUGHERTY PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

LEGEND

- SPAN WIRE
- WOOD POLE, CLASS 4
- WOOD POST OR SKID TYPE TEMPORARY
- SIGNAL HEAD, OVERHEAD MOUNT
- PEDESTRIAN HEAD WITH PUSH BUTTON
- LUMINAIRE UNDER PERMIT TO LOCAL MUNICIPALITY
- TEMPORARY LUMINAIRE LED CATEGORY C
- XX — SIGNAL HEAD NUMBER
- R — RED CIRCULAR INDICATOR
- Y — YELLOW CIRCULAR INDICATOR
- G — GREEN CIRCULAR INDICATOR
- R — RED ARROW
- Y — YELLOW ARROW
- G — GREEN ARROW
- DON'T WALK INDICATOR 16"
  WALK INDICATOR 16"
- Y — YIELD SIGN
- X — EVP DESIGNATOR
- EVP DETECTOR HEAD
- LANE DESIGNATION
- WORK AREA
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING



CONSTRUCTION NOTES:

1. FINAL LOCATION OF WOOD POLES, CCTV, AND SIGNAL HEADS SHALL BE DIRECTED BY THE ENGINEER.
2. POLES AND POSTS INSTALLED BEHIND CURBS SHALL BE OFFSET A MINIMUM OF 2 FEET FROM THE FACE OF CURB TO THE SIDE OF THE POST OR POLE.
3. GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
4. NO ADDITIONAL COST IF NEED TO WIRE TEMPORARY SIGNAL EQUIPMENT INTO NEW PERMANENT SIGNAL EQUIPMENT.
5. CONTRACTOR TO ADJUST TEMPORARY SIGNALS WITHIN EACH CONSTRUCTION STAGE AS DIRECTED BY THE ENGINEER TO MAINTAIN MUTCD SIGNAL REQUIREMENTS.
6. CONTRACTOR SHALL COORDINATE WITH THE WISDOT ELECTRICAL FIELD UNIT, (414) 266-1170, 5 WORKING DAYS PRIOR TO BEGINNING ANY WORK AT THE INTERSECTION.
7. ANY KNOCKDOWNS TO PERMANENT/TEMPORARY SIGNAL EQUIPMENT SHALL BE REPLACED BY THE CONTRACTOR.
8. ALL NEAR RIGHT TRAFFIC SIGNAL HEADS SHALL BE PLACED BETWEEN THE SPAN WIRE AND TETHER WIRE.
9. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
10. ALL EXISTING SIGNAL HEADS SHALL BE REMOVED, COVERED OR TURNED AWAY FROM TRAFFIC IMMEDIATELY AFTER TURNING ON TEMPORARY SIGNALS.

TRAFFIC CONTROL SIGNAL
STH 57 & STH 100
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO. S40-1163 — CONTROLLER TYPE: TEMP

REGION CONTACT: JOYCE MURPHY
DESIGNED BY: HNTB
REVISED BY:

PAGE 9 OF 11

PROJECT NO: 2270-04-70	HWY: STH 57/100	COUNTY: MILWAUKEE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 6	SHEET 317	E

FILE NAME : I:\64008_STH_57\22700400\SIG\S40-1163\S40-1163_SB RAMP TMP_S6.DWG
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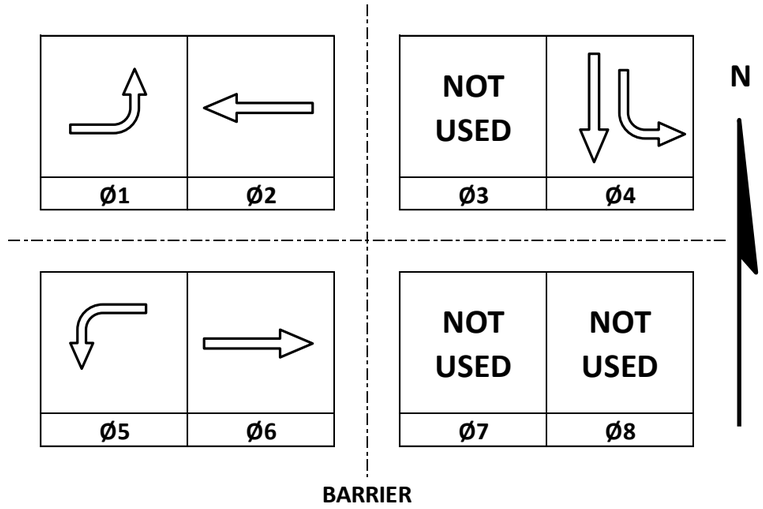
PLOT DATE : 6/9/2021 8:05 AM PLOT BY : MATTHEW MAY PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

	HEAD NUMBERS	FLASH
Ø1	4,5,6	R ←
Ø2	7,8,9	R
Ø3		
Ø4	13,14,15,16,17	R, R ←
Ø5	10,11,12	R ←
Ø6	1,2,3	R
Ø7		
Ø8		
Ø2P		
Ø4P		
Ø6P		
Ø8P		
OLA		
OLB		
OLC		
OLD		

RING 1

RING 2



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6	MAX	X
2		6	MAX	X
3				
4			MAX	X
5		2	MAX	X
6		2	MAX	X
7				
8				

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	X
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	
CELL MODEM	

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS-

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	
GTT	
TOMAR	
HARDWIRE	
OTHER	
CONFIRMATION LIGHTS	
LIFT BRIDGE	
QUEUE DETECTION	

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C
MOVEMENT	←	→	↓
PHASE	2+5	6+1	4

AFTER PREEMPTION SEQUENCE 2+5 OR 6+1, CONTROLLER SHALL RETURN TO PHASES 2+6.
AFTER PREEMPTION SEQUENCE 4, CONTROLLER SHALL RETURN TO PHASE 4.

GENERAL NOTES:

1. DURING STAGE 4A, PHASE 6 WILL RUN CONCURRENTLY WITH PHASE 4. PHASE 6 TO DISPLAY GREEN BALL AT ALL TIMES.

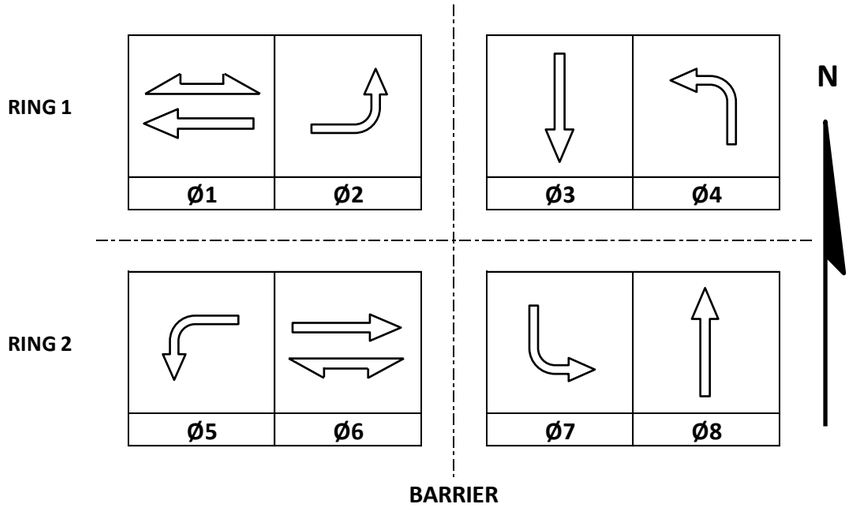
STH 57 & STH 100 SB RAMPS
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO: S40-1163 CABINET TYPE: TEMP
CONTROLLER TYPE: TEMP
DATE: 06/2021 PAGE NUMBER: 10 OF 11

PROJECT NO: 2270-04-70	HWY: STH 57/100	COUNTY: MILWAUKEE	TEMPORARY SEQUENCE OF OPERATIONS – PRE-STAGE 1 – STAGE 4B	SHEET NO: E

2

	HEAD NUMBERS	FLASH
Ø1	7,8,9,10,11	R
Ø2	4,5,6	R ←
Ø3	22,23,24,25	R
Ø4	19,20,21	R ←
Ø5	12,13,14	R ←
Ø6	1,2,3	R
Ø7	26,27,28	R ←
Ø8	15,16,17,18	R
Ø1P	29,30	
Ø4P		
Ø6P	31,32	
Ø8P		
OLA		
OLB		
OLC		
OLD		



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6	MAX	X
2		6	MAX	X
3		8	MAX	X
4		8	MAX	X
5		1	MAX	X
6		1	MAX	X
7		3	MAX	X
8		3	MAX	X

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	X
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	
CELL MODEM	

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS-

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	
GTT	
TOMAR	
HARDWIRE	
OTHER	
CONFIRMATION LIGHTS	
LIFT BRIDGE	
QUEUE DETECTION	

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT	←	→	↓	↑
PHASE	1+5	6+2	3+7	8+4

AFTER PREEMPTION SEQUENCE 1+5 OR 6+2, CONTROLLER SHALL RETURN TO PHASES 1+6.
AFTER PREEMPTION SEQUENCE 3+7 OR 8+4, CONTROLLER SHALL RETURN TO PHASES 3+8.

GENERAL NOTES:

1. PHASE 2 AND 5 IN CONFLICT AND SHALL NOT RUN CONCURRENTLY.
2. PHASE 4 AND 7 IN CONFLICT AND SHALL NOT RUN CONCURRENTLY.

STH 57 & STH 100
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

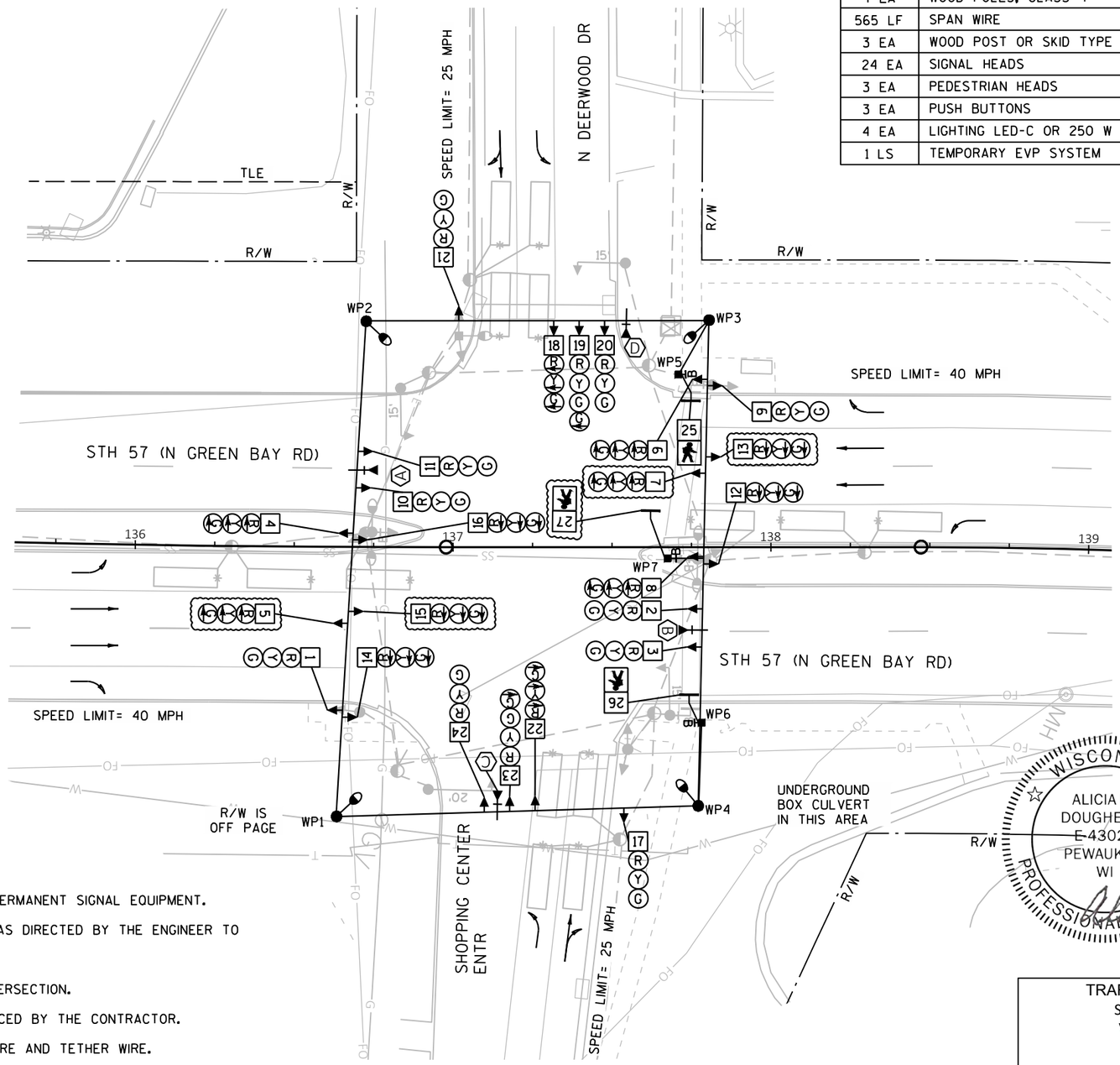
SIGNAL NO:	S40-1163	CABINET TYPE:	TEMP
		CONTROLLER TYPE:	TEMP
DATE:	06/2021	PAGE NUMBER:	11 OF 11

LEGEND

- SPAN WIRE
- WOOD POLE, CLASS 4
- WOOD POST OR SKID TYPE TEMPORARY
- SIGNAL HEAD, OVERHEAD MOUNT
- PEDESTRIAN HEAD WITH PUSH BUTTON
- TEMPORARY LUMINAIRE LED CATEGORY C
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- DON'T WALK INDICATOR 16"
  WALK INDICATOR 16"
- X EVP DESIGNATOR
- EVP DETECTOR HEAD
- LANE DESIGNATION
- WORK AREA
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

SUMMARY OF SELECTED ITEMS FOR INFORMATION ONLY	
QUANTITY	DESCRIPTION
4 EA	WOOD POLES, CLASS 4
565 LF	SPAN WIRE
3 EA	WOOD POST OR SKID TYPE TEMPORARY
24 EA	SIGNAL HEADS
3 EA	PEDESTRIAN HEADS
3 EA	PUSH BUTTONS
4 EA	LIGHTING LED-C OR 250 W HPS
1 LS	TEMPORARY EVP SYSTEM



CONSTRUCTION NOTES:

1. FINAL LOCATION OF WOOD POLES, CCTV, AND SIGNAL HEADS SHALL BE DIRECTED BY THE ENGINEER.
2. POLES AND POSTS INSTALLED BEHIND CURBS SHALL BE OFFSET A MINIMUM OF 2 FEET FROM THE FACE OF CURB TO THE SIDE OF THE POST OR POLE.
3. GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
4. NO ADDITIONAL COST IF NEED TO WIRE TEMPORARY SIGNAL EQUIPMENT INTO NEW PERMANENT SIGNAL EQUIPMENT.
5. CONTRACTOR TO ADJUST TEMPORARY SIGNALS WITHIN EACH CONSTRUCTION STAGE AS DIRECTED BY THE ENGINEER TO MAINTAIN MUTCD SIGNAL REQUIREMENTS.
6. CONTRACTOR SHALL COORDINATE WITH THE WISDOT ELECTRICAL FIELD UNIT, (414) 266-1170, 5 WORKING DAYS PRIOR TO BEGINNING ANY WORK AT THE INTERSECTION.
7. ANY KNOCKDOWNS TO PERMANENT/TEMPORARY SIGNAL EQUIPMENT SHALL BE REPLACED BY THE CONTRACTOR.
8. ALL NEAR RIGHT TRAFFIC SIGNAL HEADS SHALL BE PLACED BETWEEN THE SPAN WIRE AND TETHER WIRE.
9. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
10. ALL EXISTING SIGNAL HEADS SHALL BE REMOVED, COVERED OR TURNED AWAY FROM TRAFFIC IMMEDIATELY AFTER TURNING ON TEMPORARY SIGNALS.

WISCONSIN
ALICIA M. DOUGHERTY
E-43022
PEWAUKEE, WI
PROFESSIONAL ENGINEER
06/15/2021

TRAFFIC CONTROL SIGNAL
STH 57 & N DEERWOOD DR
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO. S40-1176 CONTROLLER TYPE: TEMP

REGION CONTACT: JOYCE MURPHY
DESIGNED BY: HNTB
REVISED BY:

PAGE 1 OF 5

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE	TEMPORARY TRAFFIC SIGNAL PLAN - PRE-STAGE 3	SHEET 320	E

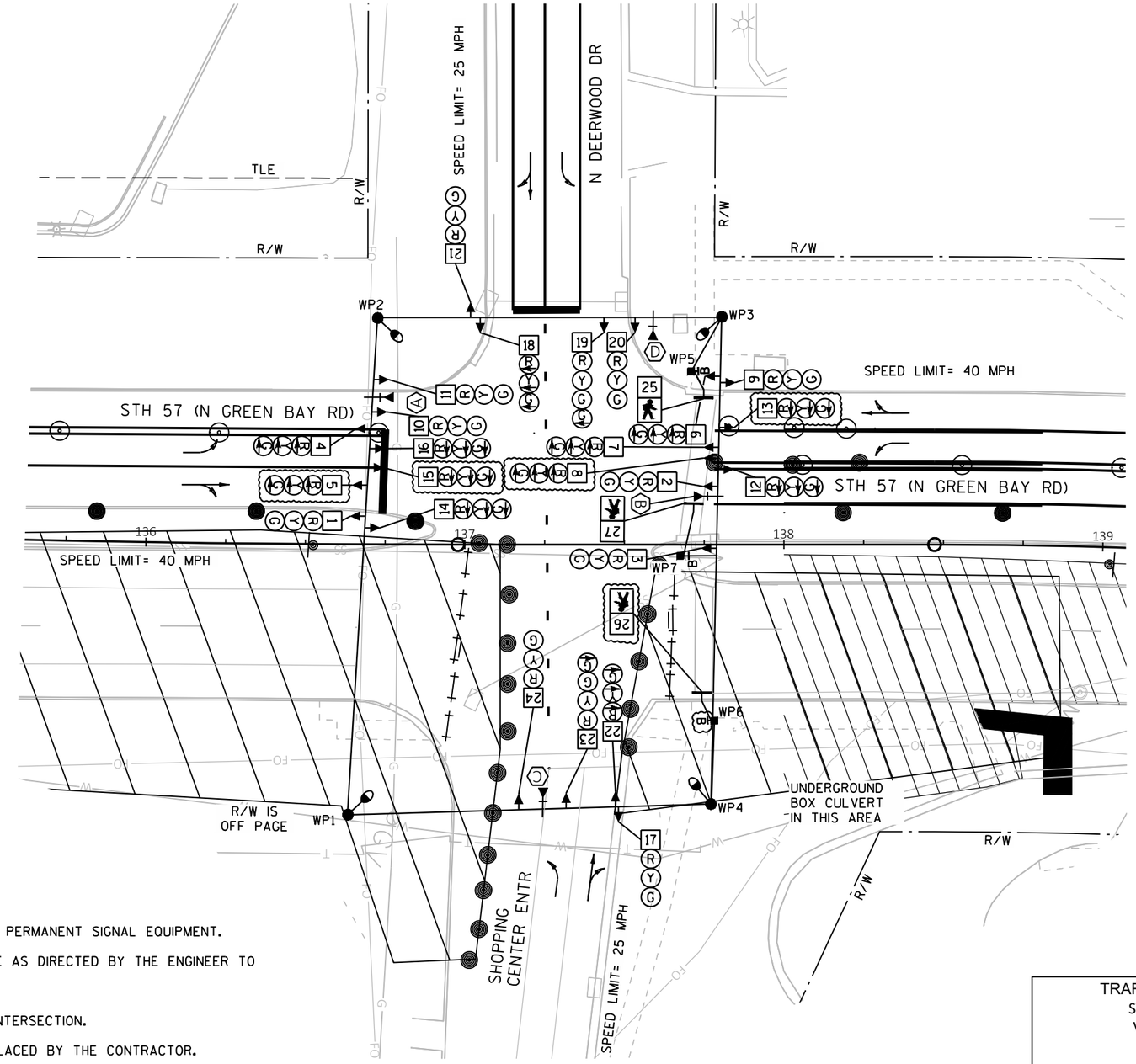
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LAYOUT NAME - S40-1176_tmppre
PLOT DATE : 6/9/2021 11:35 AM PLOT BY : ALICIA DOUGHERTY PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

- SPAN WIRE
- WOOD POLE, CLASS 4
- WOOD POST OR SKID TYPE TEMPORARY
- SIGNAL HEAD, OVERHEAD MOUNT
- PEDESTRIAN HEAD WITH PUSH BUTTON
- TEMPORARY LUMINAIRE LED CATEGORY C
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- DON'T WALK INDICATOR 16"
  WALK INDICATOR 16"
- X EVP DESIGNATOR
- EVP DETECTOR HEAD
- LANE DESIGNATION
- WORK AREA
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING



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TRAFFIC CONTROL SIGNAL
STH 57 & N DEERWOOD DR
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO. S40-1176 CONTROLLER TYPE: TEMP

REGION CONTACT: JOYCE MURPHY
DESIGNED BY: HNTB
REVISED BY:

PAGE 2 OF 5

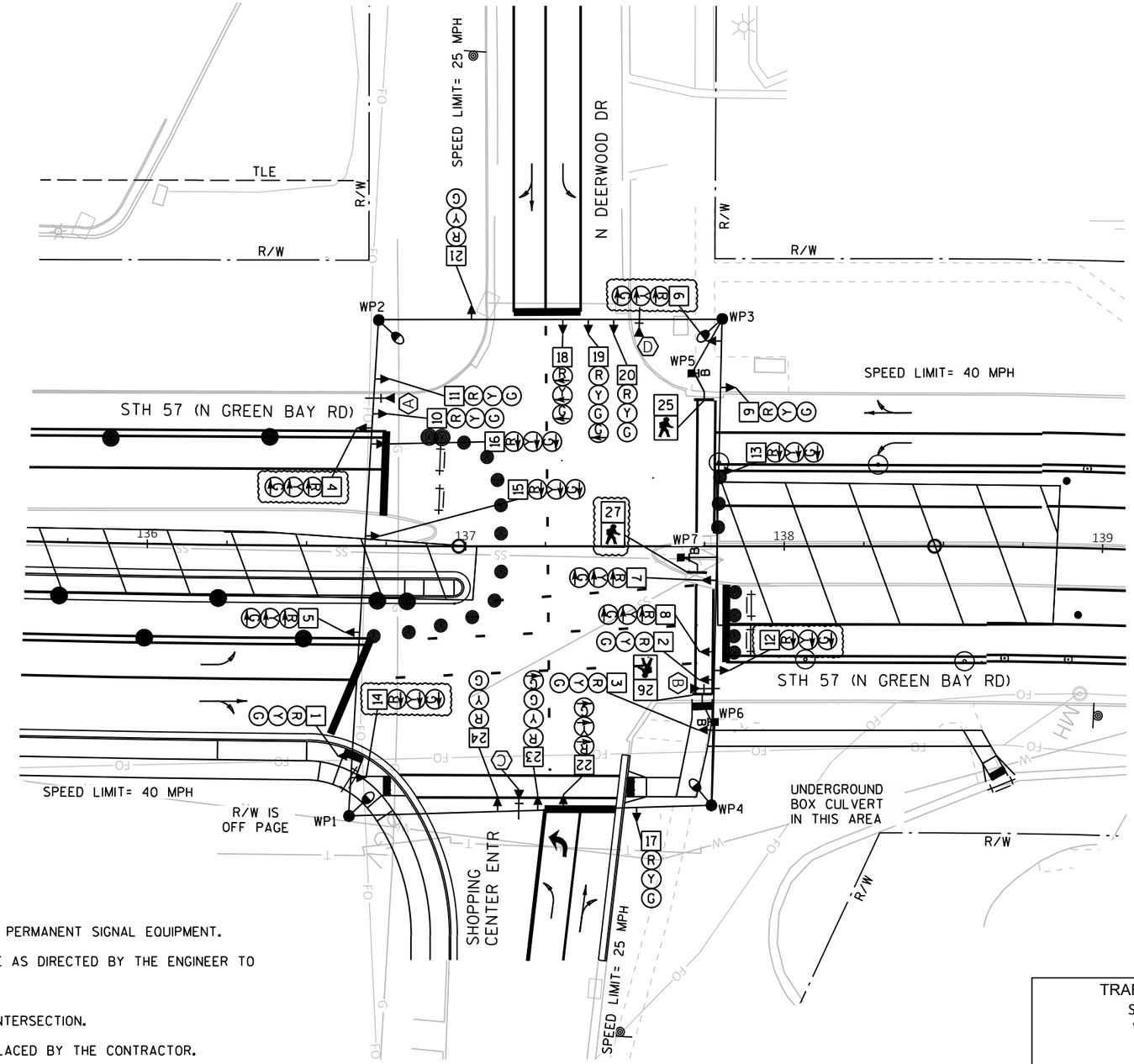
PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 3 AND STAGE 4A	SHEET 321	E

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LAYOUT NAME - S40-1176_tmpS3
PLOT DATE : 6/8/2021 8:00 PM PLOT BY : MATTHEW MAY PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

LEGEND

- SPAN WIRE
- WOOD POLE, CLASS 4
- WOOD POST OR SKID TYPE TEMPORARY
- SIGNAL HEAD, OVERHEAD MOUNT
- PEDESTRIAN HEAD WITH PUSH BUTTON
- TEMPORARY LUMINAIRE LED CATEGORY C
- XX — SIGNAL HEAD NUMBER
- R — RED CIRCULAR INDICATOR
- Y — YELLOW CIRCULAR INDICATOR
- G — GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- DON'T WALK INDICATOR 16"
  WALK INDICATOR 16"
- X — EVP DESIGNATOR
- EVP DETECTOR HEAD
- LANE DESIGNATION
- WORK AREA
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING



CONSTRUCTION NOTES:

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9. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.

TRAFFIC CONTROL SIGNAL
STH 57 & N DEERWOOD DR
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO. S40-1176 — CONTROLLER TYPE: TEMP

REGION CONTACT: JOYCE MURPHY
DESIGNED BY: HNTB
REVISED BY:

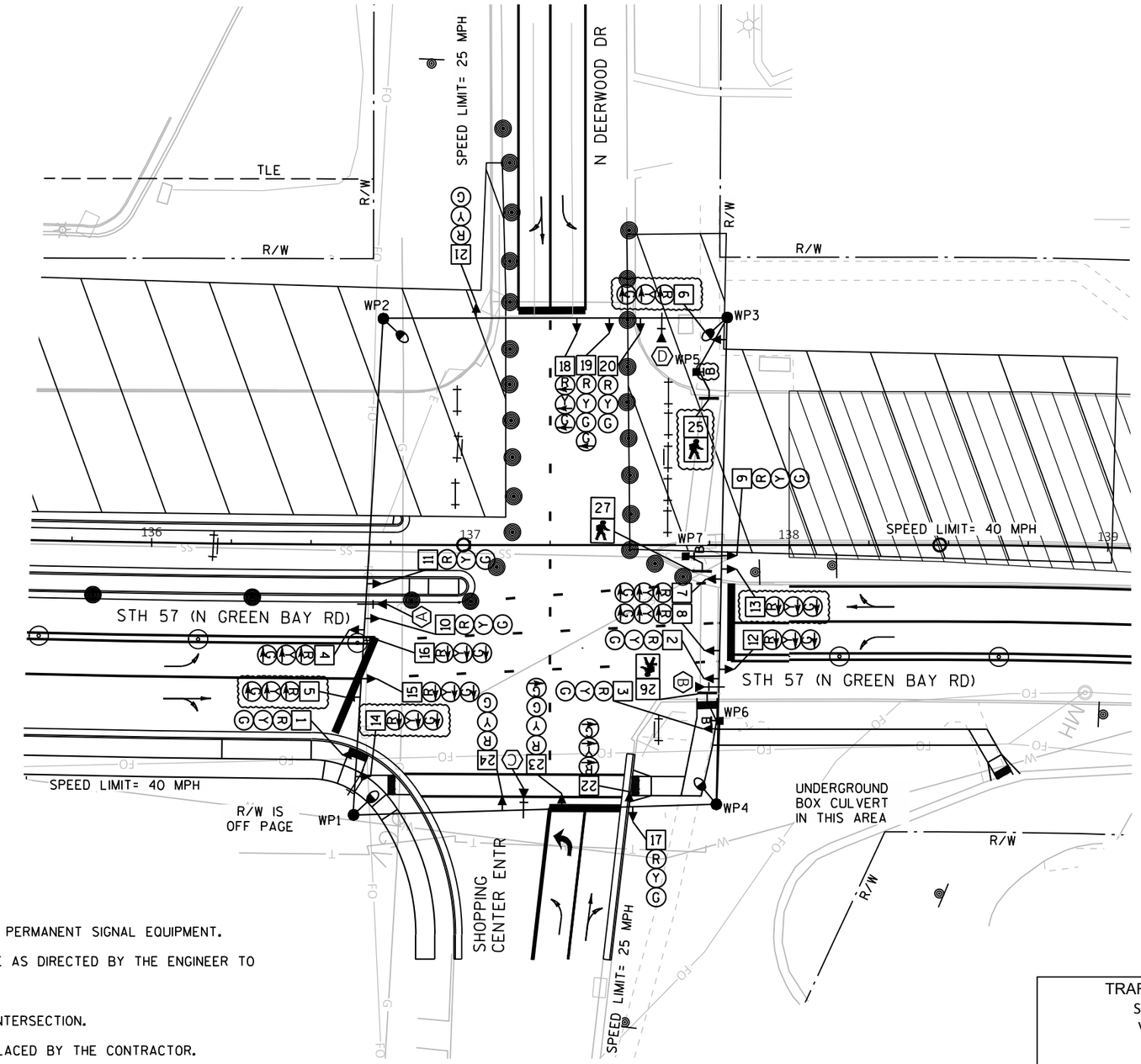
PAGE 3 OF 5

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 4B	SHEET 322	E

LEGEND

- SPAN WIRE
- WOOD POLE, CLASS 4
- WOOD POST OR SKID TYPE TEMPORARY
- SIGNAL HEAD, OVERHEAD MOUNT
- PEDESTRIAN HEAD WITH PUSH BUTTON
- TEMPORARY LUMINAIRE LED CATEGORY C
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- R RED ARROW
- Y YELLOW ARROW
- G GREEN ARROW
- DON'T WALK INDICATOR 16"
  WALK INDICATOR 16"
- X EVP DESIGNATOR
- EVP DETECTOR HEAD
- LANE DESIGNATION
- WORK AREA
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING



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TRAFFIC CONTROL SIGNAL
STH 57 & N DEERWOOD DR
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO. S40-1176 CONTROLLER TYPE: TEMP

REGION CONTACT: JOYCE MURPHY
DESIGNED BY: HNTB
REVISED:

PAGE 4 OF 5

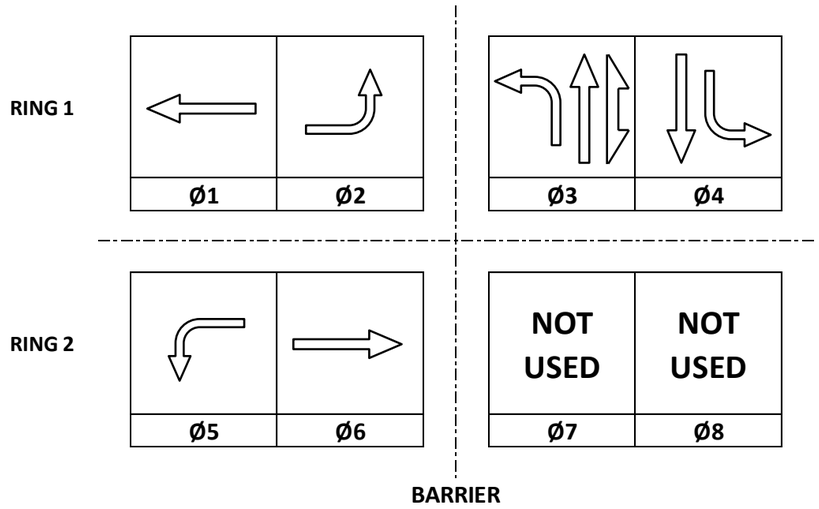
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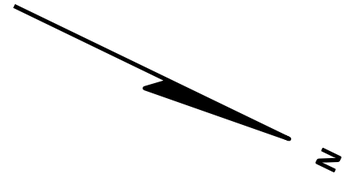
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LAYOUT NAME - S40-1176_tmpS5

PLOT DATE : 6/8/2021 8:02 PM PLOT BY : MATTHEW MAY PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

	HEAD NUMBERS	FLASH
Ø1	9,10,11	R
Ø2	4,5,6,7,8	R
Ø3	17,18,19,20	R, R
Ø4	21,22,23,24	R, R
Ø5	12,13,14,15,16	R
Ø6	1,2,3	R
Ø7		
Ø8		
Ø3P	25,26, 27	
Ø4P		
Ø6P		
Ø8P		
OLA		
OLB		
OLC		
OLD		





CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6	MAX	X
2		6	MAX	X
3			MAX	X
4			MAX	X
5		1	MAX	X
6		1	MAX	X
7				
8				

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	X
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	
CELL MODEM	

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO: S-	
SIGNAL SYSTEM NO: SS-	

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	
GTT	
TOMAR	
HARDWIRE	
OTHER	
CONFIRMATION LIGHTS	
LIFT BRIDGE	
QUEUE DETECTION	

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT				
PHASE	1+5	6+2	4	3

AFTER PREEMPTION SEQUENCE 1+5 OR 6+2, CONTROLLER SHALL RETURN TO PHASES 1+6.

AFTER PREEMPTION SEQUENCE 4, CONTROLLER SHALL RETURN TO PHASE 4.

AFTER PREEMPTION SEQUENCE 3, CONTROLLER SHALL RETURN TO PHASE 3.

GENERAL NOTES:

1. PHASE 2 AND 5 IN CONFLICT AND SHALL NOT RUN CONCURRENTLY.

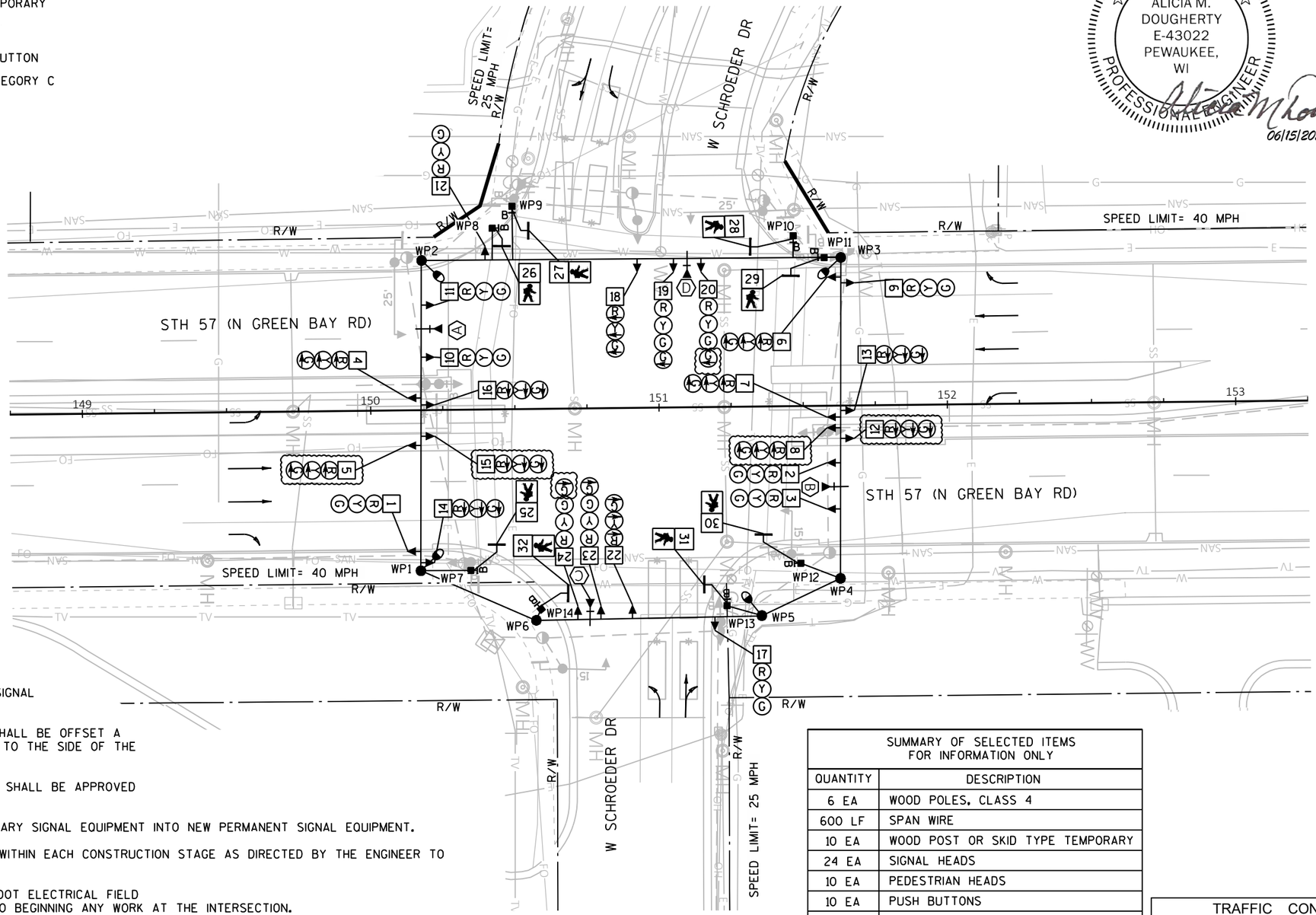
STH 57 & N DEERWOOD DR
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO: S40-1176 CABINET TYPE: TEMP
CONTROLLER TYPE: TEMP
DATE: 06/2021 PAGE NUMBER: 5 OF 5

LEGEND

- SPAN WIRE
- WOOD POLE, CLASS 4
- WOOD POST OR SKID TYPE TEMPORARY
- SIGNAL HEAD, OVERHEAD MOUNT
- PEDESTRIAN HEAD WITH PUSH BUTTON
- TEMPORARY LUMINAIRE LED CATEGORY C
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- R ARROW
- Y ARROW
- G ARROW
- DON'T WALK INDICATOR 16" / WALK INDICATOR 16"
- X EVP DESIGNATOR
- EVP DETECTOR HEAD
- LANE DESIGNATION
- WORK AREA
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING



WISCONSIN
ALICIA M. DOUGHERTY
E-43022
PEWAUKEE, WI
PROFESSIONAL ENGINEER
06/15/2021

CONSTRUCTION NOTES:

1. FINAL LOCATION OF WOOD POLES, CCTV, AND SIGNAL HEADS SHALL BE DIRECTED BY THE ENGINEER.
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SUMMARY OF SELECTED ITEMS FOR INFORMATION ONLY

QUANTITY	DESCRIPTION
6 EA	WOOD POLES, CLASS 4
600 LF	SPAN WIRE
10 EA	WOOD POST OR SKID TYPE TEMPORARY
24 EA	SIGNAL HEADS
10 EA	PEDESTRIAN HEADS
10 EA	PUSH BUTTONS
4 EA	LIGHTING LED-C OR 250 W HPS
1 LS	TEMPORARY EVP SYSTEM

TRAFFIC CONTROL SIGNAL
STH 57 & W SCHROEDER DR
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO. S40-1227 CONTROLLER TYPE: TEMP

REGION CONTACT: JOYCE MURPHY
DESIGNED BY: HNTB
REVISED BY:

PAGE 1 OF 5

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE	TEMPORARY TRAFFIC SIGNAL PLAN - PRE-STAGE 3	SHEET 325	E

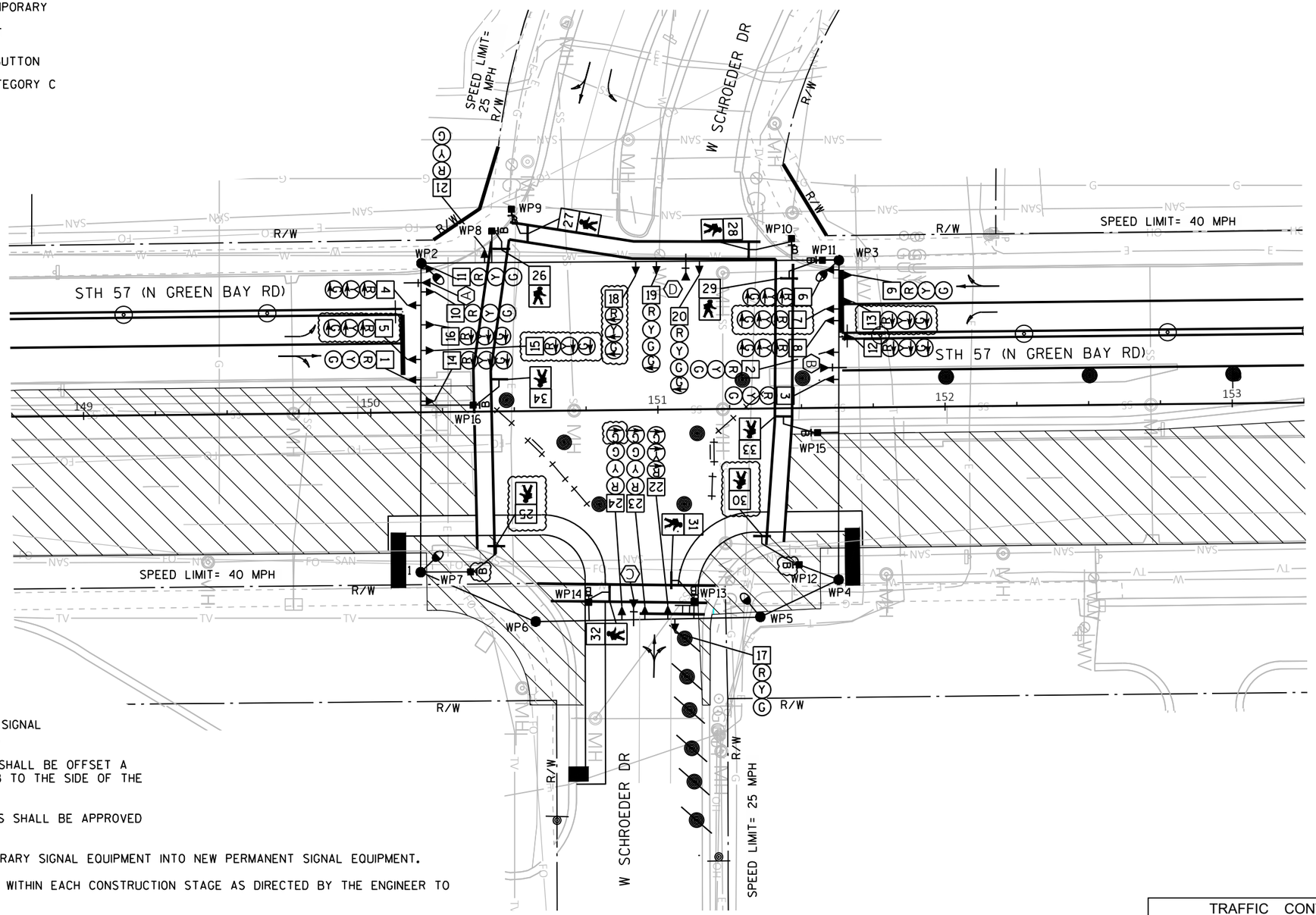
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LAYOUT NAME - S40-1227_tmppre
PLOT DATE : 6/9/2021 11:38 AM PLOT BY : ALICIA DOUGHERTY PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- SPAN WIRE
- WOOD POLE, CLASS 4
- WOOD POST OR SKID TYPE TEMPORARY
- SIGNAL HEAD, OVERHEAD MOUNT
- PEDESTRIAN HEAD WITH PUSH BUTTON
- TEMPORARY LUMINAIRE LED CATEGORY C
- XX SIGNAL HEAD NUMBER
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TRAFFIC CONTROL SIGNAL
STH 57 & W SCHROEDER DR
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO. S40-1227 CONTROLLER TYPE: TEMP

REGION CONTACT: JOYCE MURPHY
DESIGNED BY: HNTB
REVISED BY:

PAGE 2 OF 5

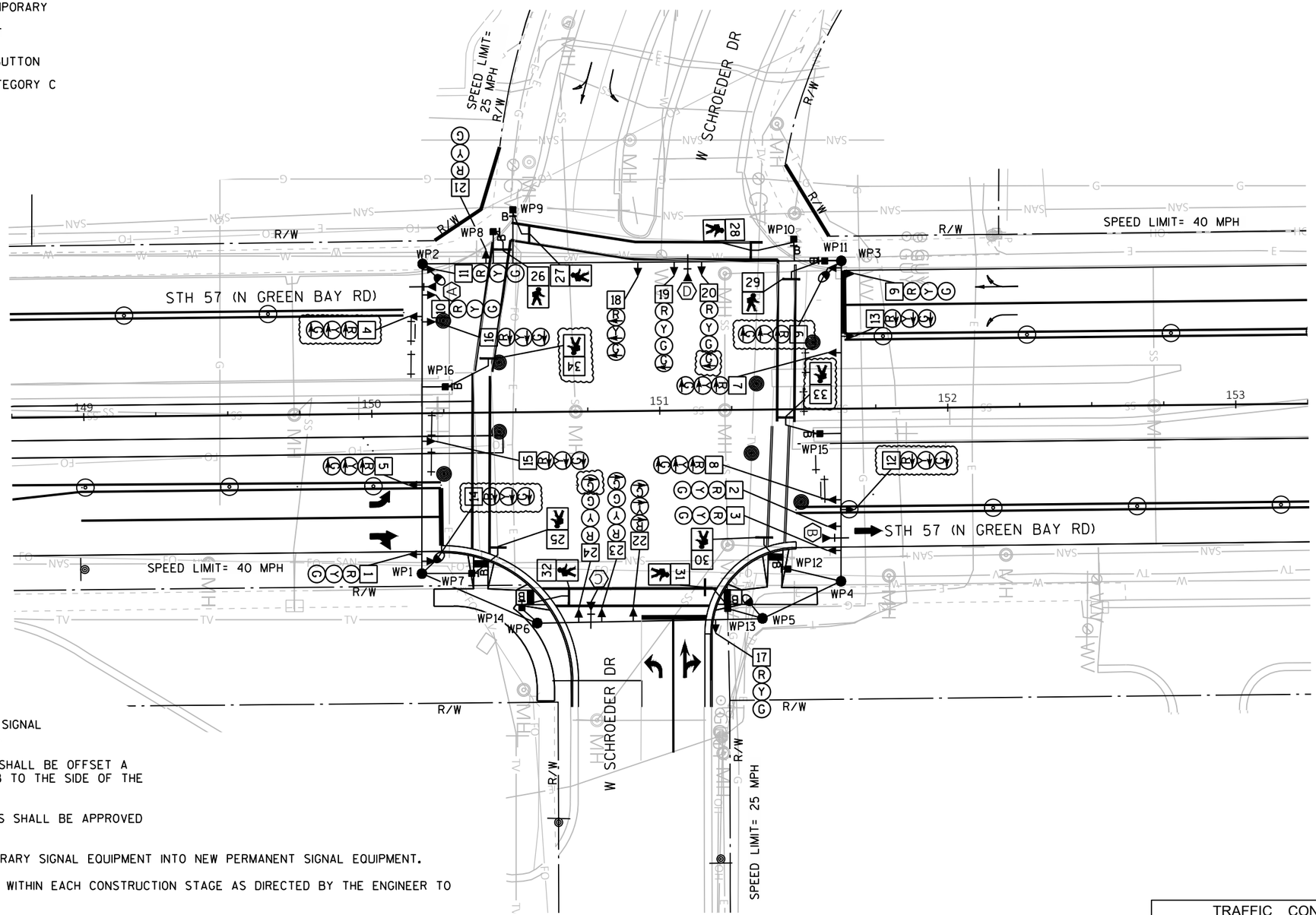
PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 3 AND STAGE 4A	SHEET 326	E

FILE NAME : I:\64008_STH_57\22700400\SIG\S40-1227\S40-1227_TMP_S3.DWG
LAYOUT NAME - S40-1227_tmpS3
PLOT DATE : 6/8/2021 8:44 PM PLOT BY : MATTHEW MAY PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

LEGEND

- SPAN WIRE
- WOOD POLE, CLASS 4
- WOOD POST OR SKID TYPE TEMPORARY
- SIGNAL HEAD, OVERHEAD MOUNT
- PEDESTRIAN HEAD WITH PUSH BUTTON
- TEMPORARY LUMINAIRE LED CATEGORY C
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- R RED ARROW
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- G GREEN ARROW
- DON'T WALK INDICATOR 16"
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- EVP DETECTOR HEAD
- LANE DESIGNATION
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TRAFFIC CONTROL SIGNAL
STH 57 & W SCHROEDER DR
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO. S40-1227 CONTROLLER TYPE: TEMP

REGION CONTACT: JOYCE MURPHY
DESIGNED BY: HNTB
REVISED BY:

PAGE 3 OF 5

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 4B	SHEET 327	E

FILE NAME : I:\64008_STH_57\22700400\SIG\S40-1227\S40-1227_TMP_S4.DWG
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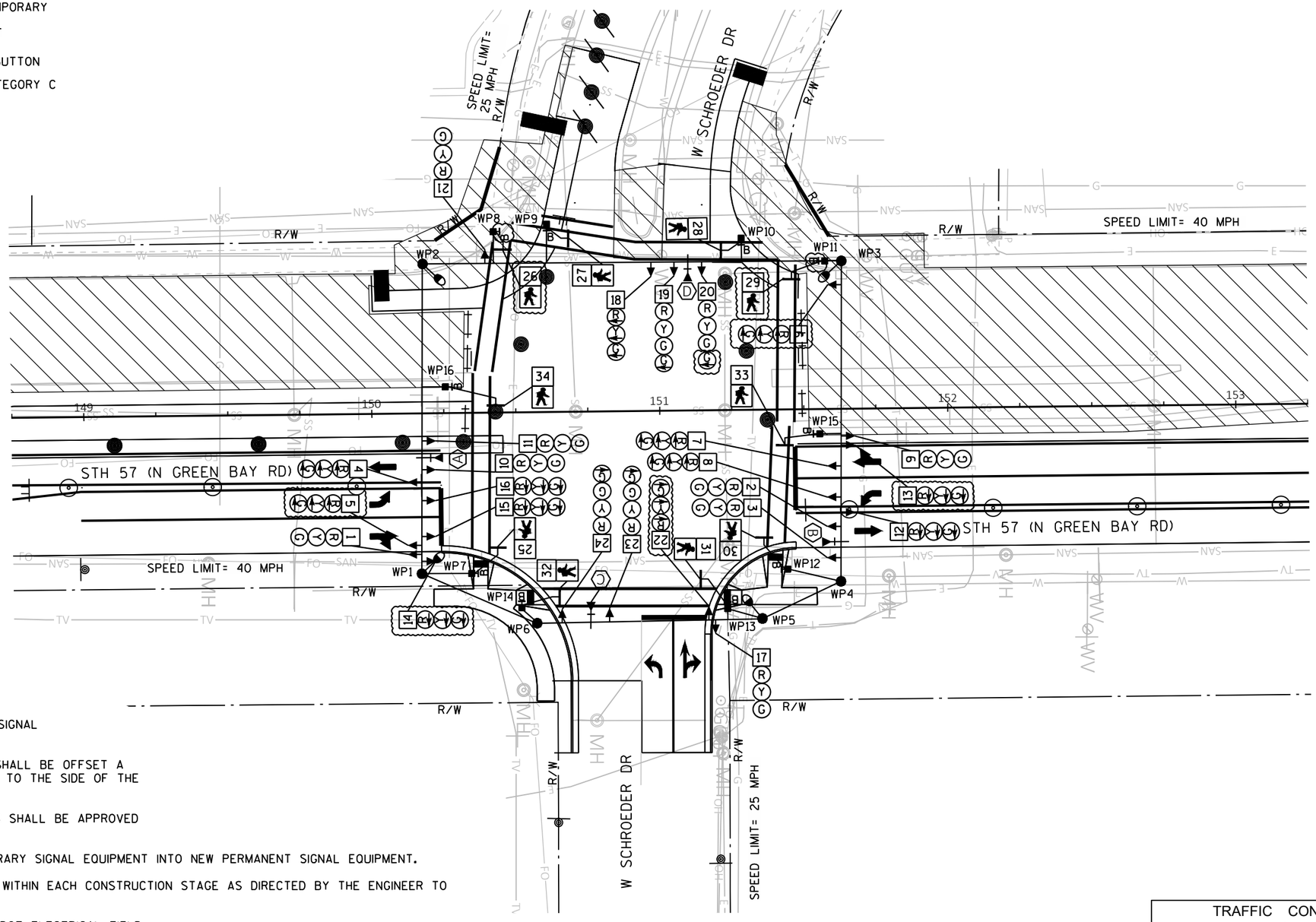
PLOT DATE : 6/8/2021 8:42 PM PLOT BY : MATTHEW MAY PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

- SPAN WIRE
- WOOD POLE, CLASS 4
- WOOD POST OR SKID TYPE TEMPORARY
- SIGNAL HEAD, OVERHEAD MOUNT
- PEDESTRIAN HEAD WITH PUSH BUTTON
- TEMPORARY LUMINAIRE LED CATEGORY C
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- R ARROW RED ARROW
- Y ARROW YELLOW ARROW
- G ARROW GREEN ARROW
- DON'T WALK INDICATOR 16"
  WALK INDICATOR 16"
- X EVP DESIGNATOR
- EVP DETECTOR HEAD
- LANE DESIGNATION
- WORK AREA
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING



CONSTRUCTION NOTES:

1. FINAL LOCATION OF WOOD POLES, CCTV, AND SIGNAL HEADS SHALL BE DIRECTED BY THE ENGINEER.
2. POLES AND POSTS INSTALLED BEHIND CURBS SHALL BE OFFSET A MINIMUM OF 2 FEET FROM THE FACE OF CURB TO THE SIDE OF THE POST OR POLE.
3. GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
4. NO ADDITIONAL COST IF NEED TO WIRE TEMPORARY SIGNAL EQUIPMENT INTO NEW PERMANENT SIGNAL EQUIPMENT.
5. CONTRACTOR TO ADJUST TEMPORARY SIGNALS WITHIN EACH CONSTRUCTION STAGE AS DIRECTED BY THE ENGINEER TO MAINTAIN MUTCD SIGNAL REQUIREMENTS.
6. CONTRACTOR SHALL COORDINATE WITH THE WISDOT ELECTRICAL FIELD UNIT, (414) 266-1170, 5 WORKING DAYS PRIOR TO BEGINNING ANY WORK AT THE INTERSECTION.
7. ANY KNOCKDOWNS TO PERMANENT/TEMPORARY SIGNAL EQUIPMENT SHALL BE REPLACED BY THE CONTRACTOR.
8. ALL NEAR RIGHT TRAFFIC SIGNAL HEADS SHALL BE PLACED BETWEEN THE SPAN WIRE AND TETHER WIRE.
9. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.

TRAFFIC CONTROL SIGNAL
STH 57 & W SCHROEDER DR
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO. S40-1227 CONTROLLER TYPE: TEMP

REGION CONTACT: JOYCE MURPHY
DESIGNED BY: HNTB
REVISED BY:

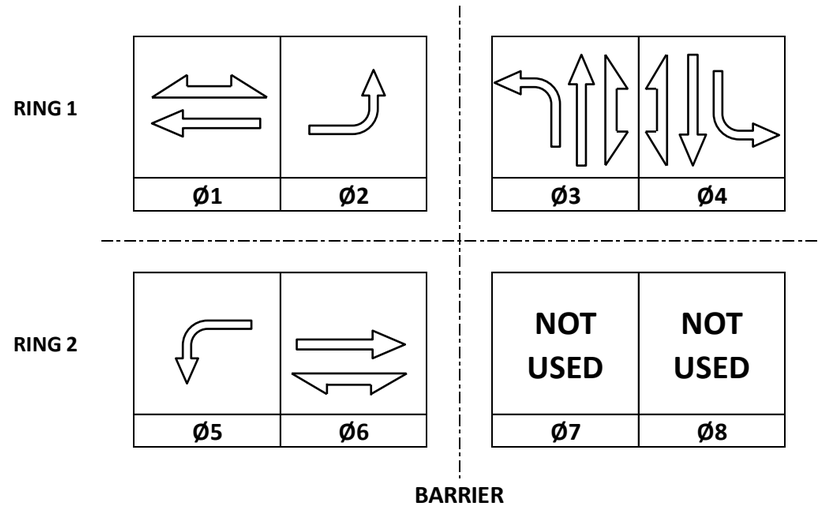
PAGE 4 OF 5

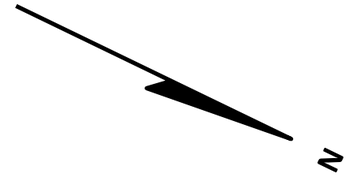
PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 5	SHEET 328	E

FILE NAME : I:\64008_STH_57\22700400\SIG\S40-1227\S40-1227_TMP_S5.DWG
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PLOT DATE : 6/8/2021 8:41 PM PLOT BY : MATTHEW MAY PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

	HEAD NUMBERS	FLASH
Ø1	9,10,11	R
Ø2	4,5,6,7,8	R ←
Ø3	17,18,19,20	R, R ←
Ø4	21,22,23,24	R, R ←
Ø5	12,13,14,15,16	R ←
Ø6	1,2,3	R
Ø7		
Ø8		
Ø1P	27,28	
Ø3P	29,30, 33	
Ø4P	25,26, 34	
Ø6P	31,32	
OLA		
OLB		
OLC		
OLD		





CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6	MAX	X
2		6	MAX	X
3			MAX	X
4			MAX	X
5		1	MAX	X
6		1	MAX	X
7				
8				

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	X
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	
CELL MODEM	

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO: S-	
SIGNAL SYSTEM NO: SS-	

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	
GTT	
TOMAR	
HARDWIRE	
OTHER	
CONFIRMATION LIGHTS	
LIFT BRIDGE	
QUEUE DETECTION	

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT				
PHASE	1+5	6+2	4	3

AFTER PREEMPTION SEQUENCE 1+5 OR 6+2, CONTROLLER SHALL RETURN TO PHASES 1+6.

AFTER PREEMPTION SEQUENCE 4, CONTROLLER SHALL RETURN TO PHASE 4.

AFTER PREEMPTION SEQUENCE 3, CONTROLLER SHALL RETURN TO PHASE 3.

GENERAL NOTES:

1. PHASE 2 AND 5 IN CONFLICT AND SHALL NOT RUN CONCURRENTLY.

STH 57 & W SCHROEDER DR
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO:	S40-1227	CABINET TYPE:	TEMP
		CONTROLLER TYPE:	TEMP
DATE:	06/2021	PAGE NUMBER:	5 OF 5





N

LEGEND

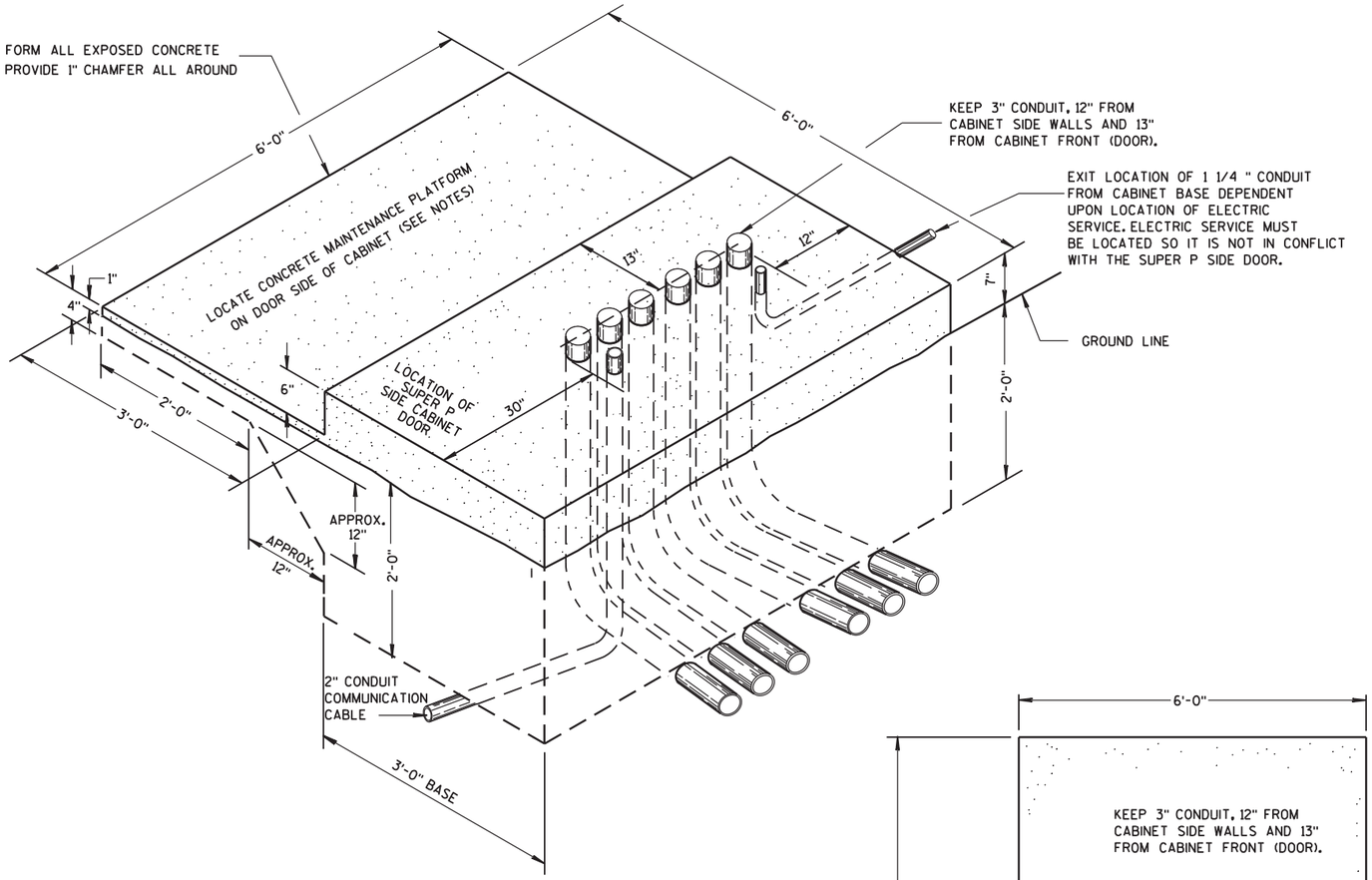
SXX-XXXX — WISDOT OWNED TRAFFIC SIGNAL

① — REMOVE EXISTING TRAFFIC SIGNAL

② — INSTALL PERMANENT TRAFFIC SIGNAL

③ — REVISE EXISTING TRAFFIC SIGNAL

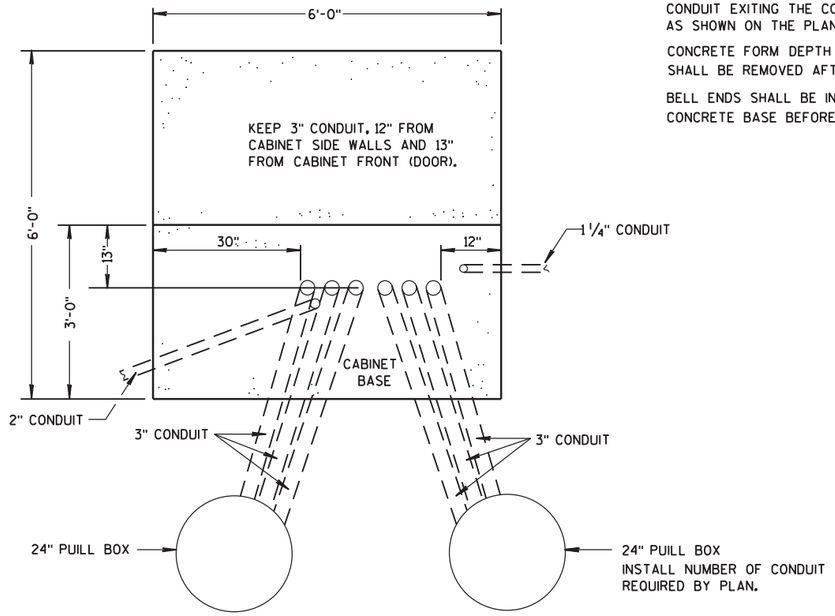
PROJECT NO: 2270-04-70	HWY: STH 57/100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PROJECT OVERVIEW	SHEET 330	E



ISOMETRIC VIEW

TYPE 9 SPECIAL SUPER P

(C.Y. CONCRETE = APPROX. 2.11)



PLAN VIEW

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

INSTALL FOUR ½ INCH MINIMUM DIAMETER X 4 INCH MINIMUM LENGTH STAINLESS STEEL APPROVED CONCRETE MASONRY ANCHORS TO ANCHOR THE CABINET TO TYPE 6, 7, 8, AND 9 BASES. THE ANCHOR STUDS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER TO PROPERLY ANCHOR THE CONTROL CABINET TO THE BASE.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 1 INCH.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

CONTROL CABINET BASE TOP SURFACE SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

MAINTENANCE PLATFORM SHALL BE FLOAT OR BROOM FINISHED AND BE LEVEL.

MAINTENANCE PLATFORMS ARE NOT REQUIRED WHEN THE SURROUNDING AREA IS PAVED.

MINIMUM BENDING RADIUS OF CONDUIT = 6 X THE DIAMETER.

ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

CAP ALL BELOW GRADE METALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

PLUG ALL BELOW GRADE NONMETALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

CONDUIT EXITING THE CONCRETE BASE (SIX THREE INCH) SHALL TERMINATE IN PULL BOXES AS SHOWN ON THE PLANS.

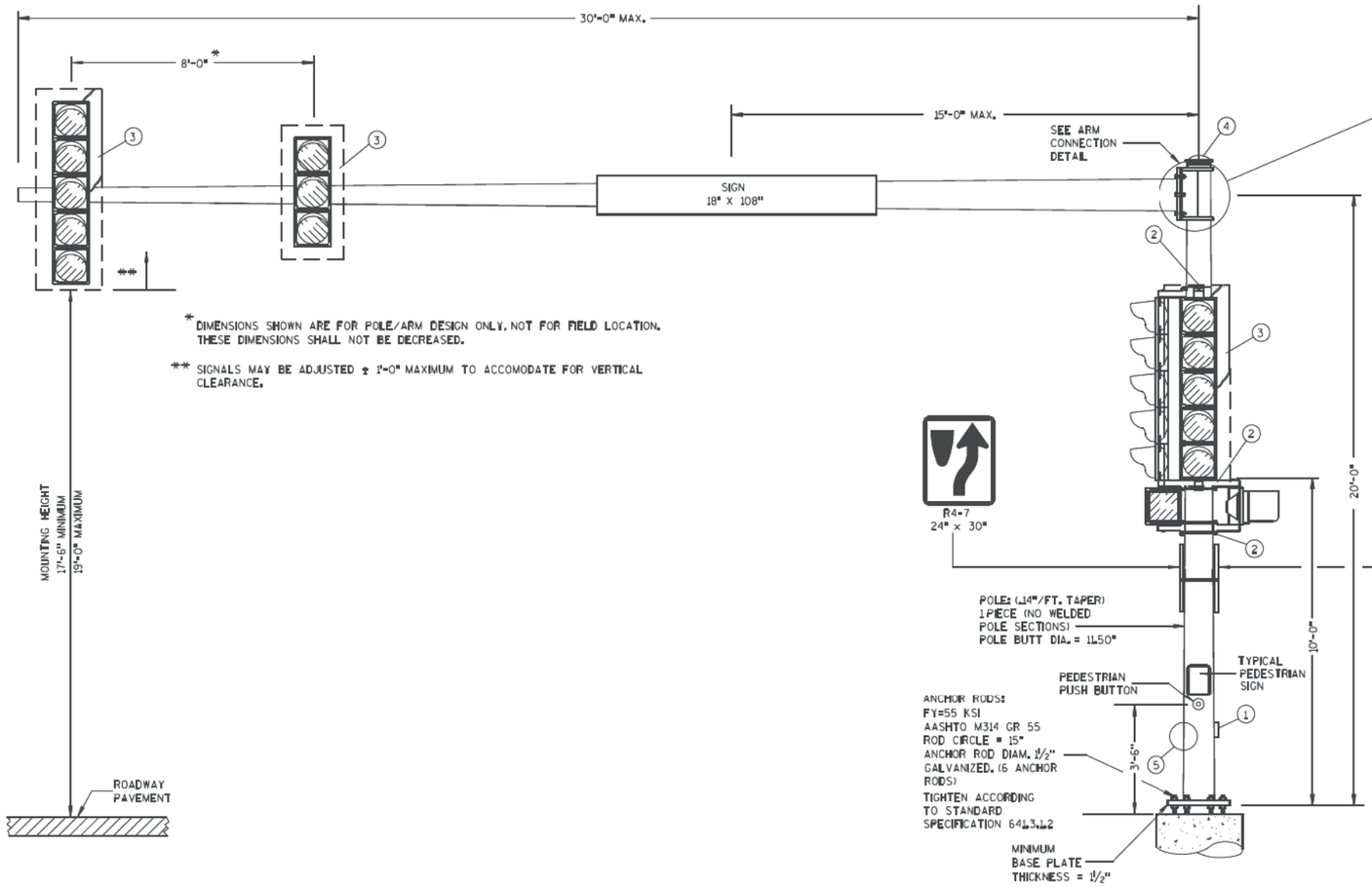
CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6" MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF THE CONCRETE BASE BEFORE INSTALLATION OF CABLE OR WIRE.

CONCRETE CONTROL CABINET BASE, TYPE 9 SPECIAL SUPER P

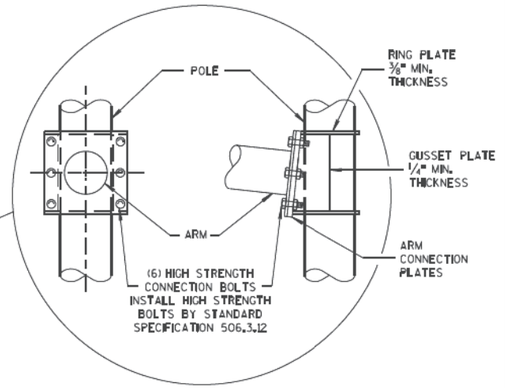
PROJECT NO: 2270-04-70	HWY: STH 57/100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL DETAILS	SHEET 331	E

STH 100 & N KILDEER CT
SB17

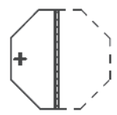


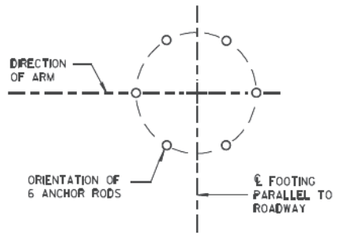
* DIMENSIONS SHOWN ARE FOR POLE/ARM DESIGN ONLY, NOT FOR FIELD LOCATION. THESE DIMENSIONS SHALL NOT BE DECREASED.

** SIGNALS MAY BE ADJUSTED ± 1'-0" MAXIMUM TO ACCOMODATE FOR VERTICAL CLEARANCE.



6 BOLT ARM CONNECTION DETAIL





ANCHOR ROD LOCATION

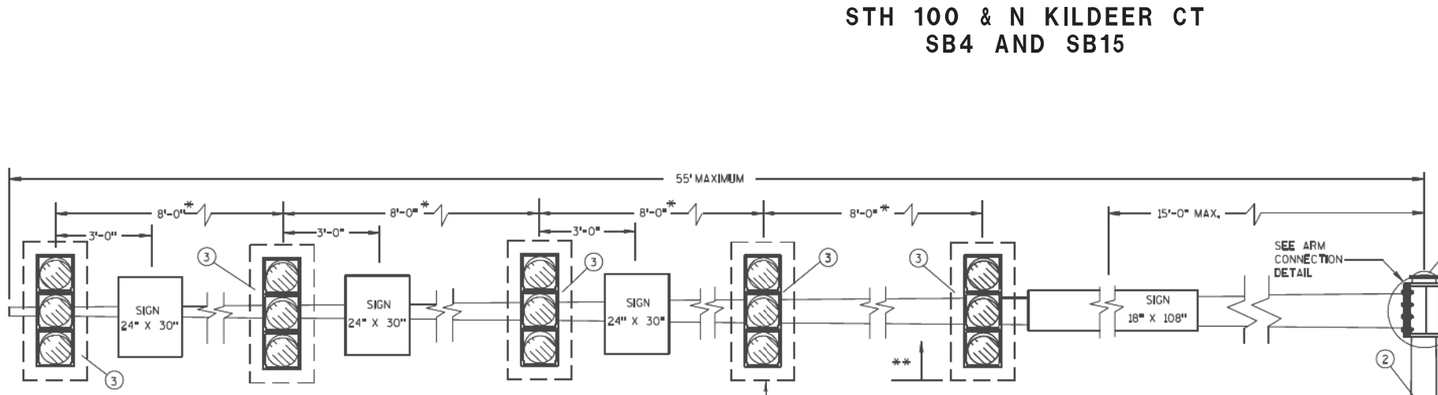
(MAXIMUM LOAD)

TYPE 9 POLE 15'- 30' MONOTUBE ARM

TYPE 9 POLE 15'-30' MONOTUBE ARM
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
APPROVED 3/3/10 DATE — /S/Joanna L. Bush STATE ELECTRICAL ENGINEER FOR HWYS.

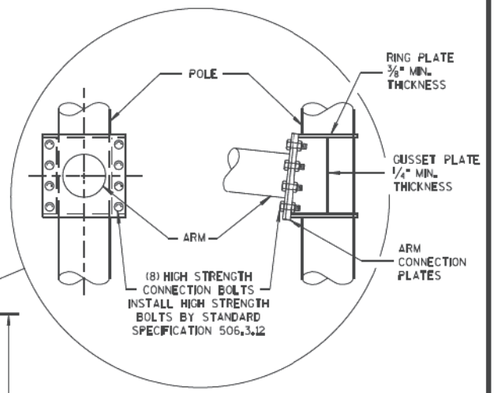
S.D.D. 9 E 8-3a

STH 100 & N KILDEER CT
SB4 AND SB15

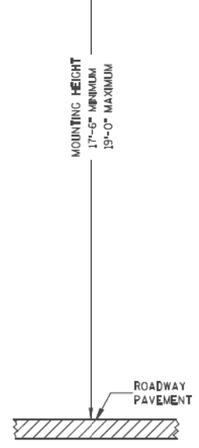


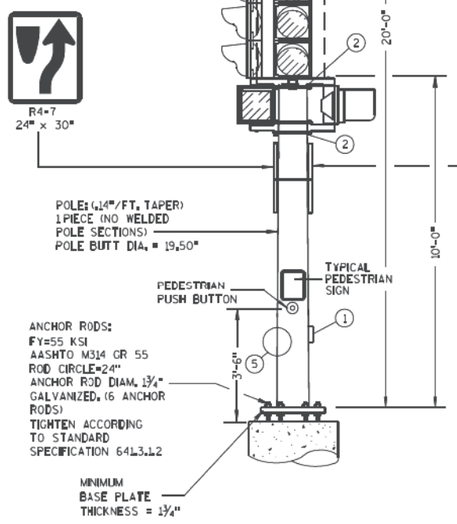
* DIMENSIONS SHOWN ARE FOR POLE/ARM DESIGN ONLY, NOT FOR FIELD LOCATION. THESE DIMENSIONS SHALL NOT BE DECREASED.

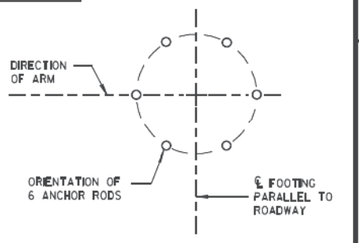
** SIGNALS MAY BE ADJUSTED ± 1'-0" MAXIMUM TO ACCOMODATE FOR VERTICAL CLEARANCE.



8 BOLT ARM CONNECTION DETAIL







ANCHOR ROD LOCATION

(MAXIMUM LOAD)

TYPE 12 POLE 35'- 55' MONOTUBE ARM

TYPE 12 POLE 35'-55' MONOTUBE ARM
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
APPROVED 3/3/10 (DATE) — /S/ Joanna L. Bush (STATE ELECTRICAL ENGINEER FOR HWYS.)
FHWA

S.D.D. 9 E 8-3c

S.D.D. 9 E 8-3c

PROJECT NO: 2270-04-70	HWY: STH 57/100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL DETAILS	SHEET	E

FILE NAME : I:\64008_STH_57\22700400\SIG\Construction Details\024002_sp_cd.dgn PLOT DATE : 6/14/2021 12:24:36 PM PLOT BY : adougherty PLOT NAME : $FILE$ PLOT SCALE : 200:1

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

POLE TYPES 9 AND 10 ARE FOR ARM LENGTHS 15-FOOT TO 30-FOOT.

POLE TYPES 12 AND 13 ARE FOR ARM LENGTHS 35-FOOT TO 55-FOOT.

MONOTUBE POLE AND ARM SHALL BE GALVANIZED STEEL.

RING-STIFFENED BUILT-UP BOX TYPE OF ATTACHMENT FOR TRAFFIC SIGNAL ARM.

ONE (1) PIECE POLE CONSTRUCTION (NO WELDED POLE SECTIONS).

STANDARD STRAIGHT ARM DESIGN (3 % ± RISE).

SECTION 657, POLES OF THE STANDARD SPECIFICATIONS SHALL APPLY TO THIS DRAWING.

PROVIDE WIREWAY THRU POLE WALL AND ARM CONNECTION PLATES. PROVIDE ROUND, SMOOTH INSIDE SURFACE.

MANUFACTURER'S SUBMITTED POLE DESIGNS AND DRAWINGS SHALL BE SIGNED AND STAMPED BY A REGISTERED PROFESSIONAL ENGINEER AND CERTIFIED AS BEING IN COMPLIANCE WITH THE LATEST AASHTO AND ALL PERTINENT WISDOT SPECIFICATIONS AND DRAWINGS FOR TRAFFIC AND LIGHTING STRUCTURES AND AS FOLLOWS:

- CATEGORY II FATIGUE LOADS OF GALLOPING, TRUCK GUSTS (AT 45 MPH VEHICLE VELOCITY) AND NATURAL WIND GUSTS FOR DESIGN OF TYPE 9 AND TYPE 10 STRUCTURES.
- CATEGORY II FATIGUE LOADS OF GALLOPING, TRUCK GUSTS (AT 45 MPH VEHICLE VELOCITY) AND NATURAL WIND GUSTS FOR DESIGN OF TYPE 12 AND TYPE 13 STRUCTURES.
- 90 MPH (3-SECOND GUST) WIND SPEED AND A 50 YEAR DESIGN LIFE.

SECURE THE OPENING BELOW THE BASE PLATE WITH STAINLESS STEEL MESH AND SECURE THE MESH WITH ¾" S.S. BANDING AROUND THE LEVELING NUTS.

INDENT PRINT (NOMINAL ½" HIGH) THE POLE LENGTH AND FIRST TWO LETTERS OF THE MANUFACTURERS NAME ON TWO SIDES OF THE BASE PLATE 180 DEGREES APART, BEFORE GALVANIZING. THE ARM SHALL BE IDENTIFIED WITH THE SAME INFORMATION BY INDENT PRINT.

SIGNAL FACE SHALL BE MOUNTED 6 INCHES (NOMINAL) FROM THE END OF THE MONOTUBE ARM OR AS SHOWN ON THE PLAN CONSTRUCTION DETAIL OR AS DIRECTED BY THE PROJECT ENGINEER/ELECTRICAL OPERATIONS PERSONNEL. MOUNT ALL LIKE HEADS AT SAME ELEVATION.

SIGN MOUNTING BRACKETS SHALL BE FURNISHED IN ACCORDANCE WITH SECTION 637 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.

(1) DESIGN FOR MAXIMUM ALLOWABLE HANDHOLE WITH COVER ASSEMBLY WITH TWO ¼" X ¾" - 20 TPI STAINLESS STEEL HEX HEAD BOLTS.

(2) SIGNAL MOUNTING BRACKETS FOR POLE MOUNTING, MOUNT WITH CAP SCREW AND BANDING, (SEE SPECIFICATIONS SEC. 658).

(3) SECURELY MOUNT BACKPLATES, PROJECTING 5" BEYOND ALL SIDES OF THE SIGNAL FACE HOUSING, PER MANUFACTURERS RECOMMENDATIONS.

(4) THE TOP OF THE POLE SHAFT AND THE END OF THE MONOTUBE ARM SHALL BE EQUIPPED WITH A REMOVABLE, VENTILATED CAP HELD SECURELY IN PLACE WITH SET SCREWS.

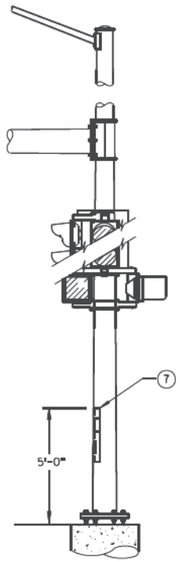
(5) FACTORY-WELDED BRACKET FOR GROUNDING LUG, OPPOSITE HANDHOLE. (LUG AND HARDWARE PAID UNDER SEPARATE ITEM), PROVIDE HOLE IN BRACKET FOR ¼" X ¾" - 20 TPI STAINLESS STEEL HEX HEAD BOLT.

(6) FACTORY-WELDED "J" HOOK FOR STRAIN RELIEF FOR POLE LUMINAIRE WIRE.

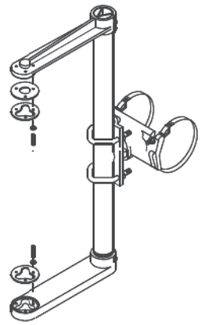
(7) INSTALL DEPARTMENT PROVIDED STRUCTURAL IDENTIFICATION PLAQUES.

STRUCTURAL IDENTIFICATION PLAQUES SHALL BE PLACED ON THE POLES IN THE SAME DIRECTION AS THE ARM.

MOUNTING HEIGHT SHALL BE 5'-0" ABOVE THE CURB OR SHOULDER . ADJUST IF IT IS KNOWN THAT REQUIRED TRAFFIC SIGNS WILL BE OBSTRUCTED.

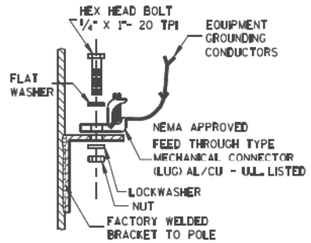


STRUCTURAL IDENTIFICATION PLAQUE PLACEMENT



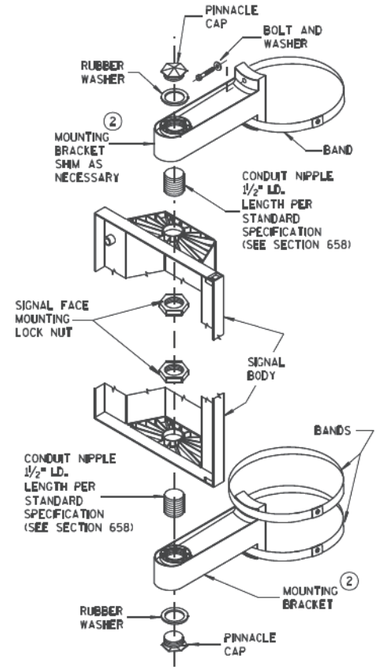
SIGNAL FACE MOUNTING BRACKET DETAIL FOR MONOTUBE ARM

(MOUNT PER MANUFACTURER'S RECOMMENDATION)

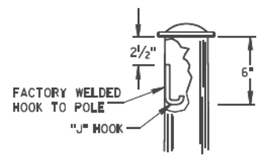


TYPICAL GROUNDING CONNECTIONS (5)

NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL



SIGNAL FACE VERTICAL MOUNTING DETAIL



"J" HOOK WIRE SUPPORT (6)

STH 100 & N KILDEER CT
SB4, SB15, AND SB17

GENERAL NOTES AND HARDWARE DETAILS FOR TYPE 9, 10, 12 & 13 POLES WITH MONOTUBE ARMS
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
APPROVED 2/3/09 DATE — /S/ Joanna L. Bush, STATE ELECTRICAL ENGINEER FOR HWYS. FHWA

S.D.D. 9 E 8-3e

S.D.D. 9 E 8-3e

PROJECT NO: 2270-04-70	HWY: STH 57/100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL DETAILS	SHEET 334	E

FILE NAME : I:\64008_STH_57\22700400\SIG\Construction Details\024002_sp_cd.dgn PLOT DATE : 6/14/2021 12:26:07 PM PLOT BY : adougherty PLOT NAME : $FILE$ PLOT SCALE : 200:1

WISDOT/CADDS SHEET 42

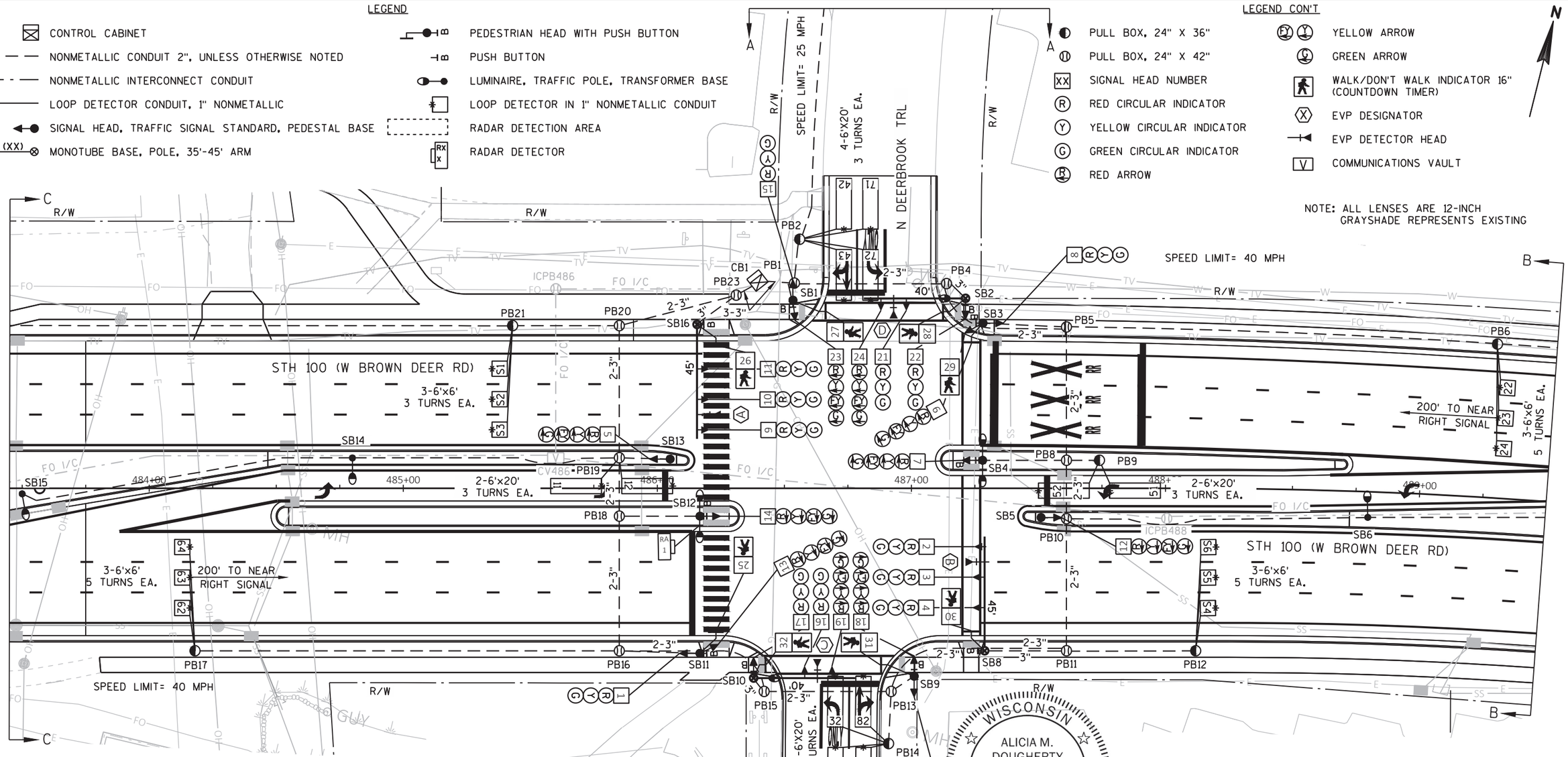
LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC INTERCONNECT CONDUIT
- LOOP DETECTOR CONDUIT, 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 35'-45' ARM
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- RADAR DETECTION AREA
- RADAR DETECTOR

LEGEND CON'T

- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- SIGNAL HEAD NUMBER
- RED CIRCULAR INDICATOR
- YELLOW CIRCULAR INDICATOR
- GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- EVP DESIGNATOR
- EVP DETECTOR HEAD
- COMMUNICATIONS VAULT

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING



CONSTRUCTION NOTES:

1. * LOCATION IS TO FRONT CENTER OF DETECTOR LOOP.
2. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM. CONTACT THE WISDOT ELECTRICAL FIELD UNIT TO MAKE ARRANGEMENTS. (414) 266-1170.
3. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
4. INSTALL CABINET BASE 6" ABOVE ROADWAY ELEVATION.
5. ALL LUMINAIRES ARE LED-C UNLESS OTHERWISE NOTED.
6. PROPOSED STORM SEWER, FTMS, DETECTABLE WARNING FIELDS AND WEST CROSSWALK MARKINGS ARE SHOWN GRAYSHADED FOR PLAN CLARITY.

WISCONSIN
ALICIA M. DOUGHERTY
E-43022
PEWAUKEE, WI
PROFESSIONAL ENGINEER
07/26/2021
Alicia M Dougherty

MONOTUBE STRUCTURE NUMBERS
SB2 = S40-2063-01
SB8 = S40-2063-02
SB10 = S40-2063-03
SB16 = S40-2063-04

TRAFFIC CONTROL SIGNAL
STH 100 & N DEERBROOK TRL
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO. S40-1473
CABINET TYPE: TS2-E
CONTROLLER TYPE: ECONOLITE

WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVAL RECOMMENDED
DATE 7/26/21 — Joyce M Murphy — REGION TRAFFIC ENGINEER

APPROVED
DATE 7/26/21 — Jerry R Lewis — STATE TRAFFIC ENGINEER

REGION CONTACT: JOYCE MURPHY
DESIGNED BY: HNTB
REVISED BY:

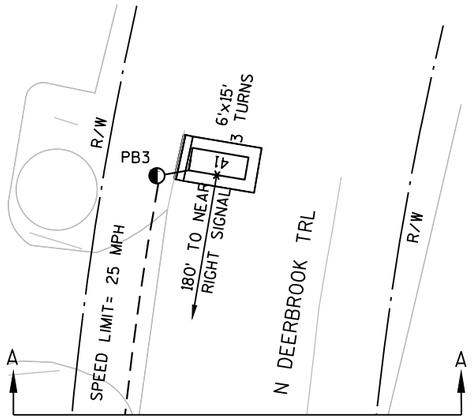
PAGE 1 OF 3

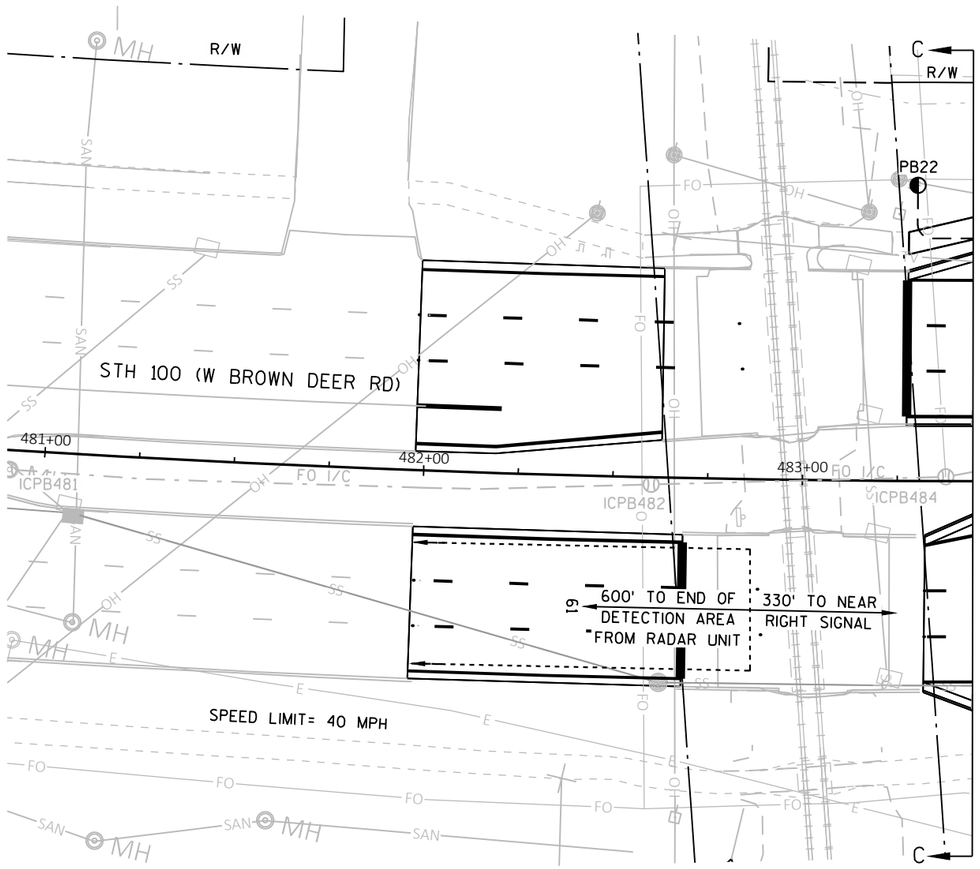
JMG 7-26-21

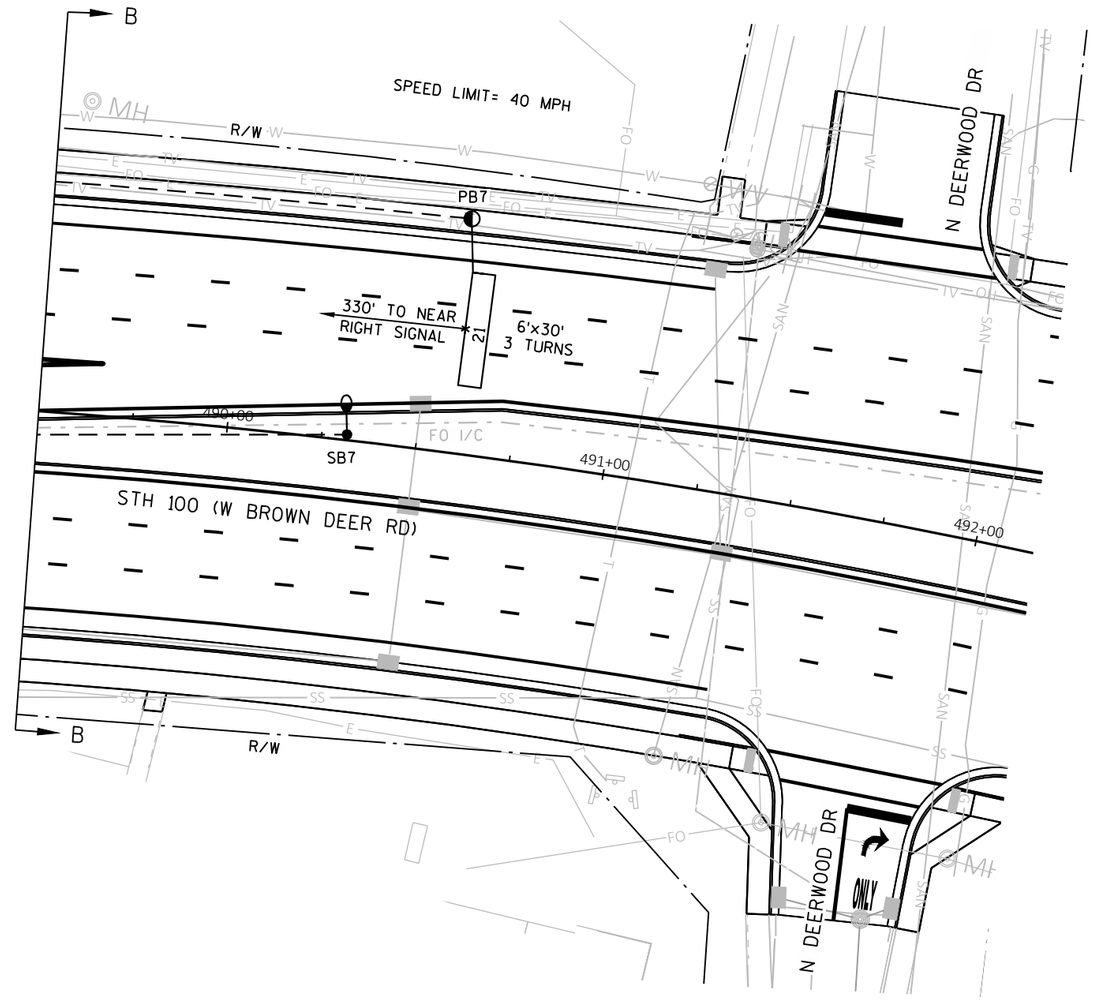
PROJECT NO: 2270-04-70	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET E

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LAYOUT NAME - S40-1473_1
PLOT DATE : 7/20/2021 1:19 PM
PLOT BY : ALICIA DOUGHERTY
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

2







TRAFFIC CONTROL SIGNAL
STH 100 & N DEERBROOK TRL
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO. S40-1473

REGION CONTACT: JOYCE MURPHY
DESIGNED BY: HNTB
REVISED BY:

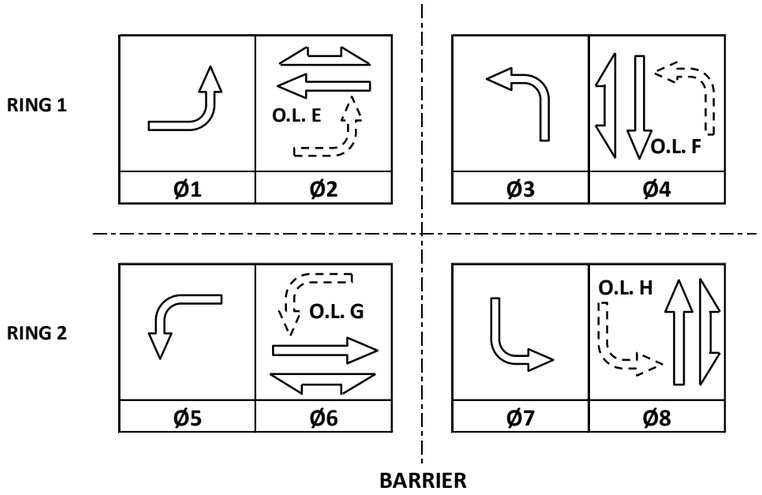
PAGE 2 OF 3

PROJECT NO: 2270-04-70	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 336	E

FILE NAME : I:\64008_STH_57\22700400\SIG\S40-1473\S40-1473.DWG
LAYOUT NAME - S40-1473_2

PLOT DATE : 7/20/2021 1:20 PM PLOT BY : ALICIA DOUGHERTY PLOT NAME : PLOT SCALE : 1 IN:40 FT

	HEAD NUMBERS	FLASH
Ø1	5,6,7	R ←
Ø2	8,9,10,11	R
Ø3	23,24	R ←
Ø4	15,16,17	R
Ø5	12,13,14	R ←
Ø6	1,2,3,4	R
Ø7	18,19	R ←
Ø8	20,21,22	R
Ø2P	27,28	
Ø4P	25,26	
Ø6P	31,32	
Ø8P	29,30	
OLE	5,6,7	-
OLF	23,24	-
OLG	12,13,14	-
OLH	18,19	-



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN	X
3		8		X
4		8		X
5		2		X
6	X	2	MIN	X
7		4		X
8		4		X

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT				
PHASE	2+5	6+1	4+7	8+3

AFTER PREEMPTION SEQUENCE 2+5 OR 6+1, CONTROLLER SHALL RETURN TO PHASES 2+6.
AFTER PREEMPTION SEQUENCE 4+7 OR 8+3, CONTROLLER SHALL RETURN TO PHASES 4+8.

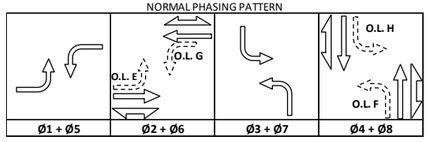
TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	X
RADIO	
CELL MODEM	

TYPE OF COORDINATION	
NONE	
TBC	
TRAFFIC RESPONSIVE	X
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS- 0015

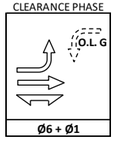
TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	X
EMERGENCY VEHICLE	X
GTT	X
TOMAR	
HARDWIRE	
OTHER	
CONFIRMATION LIGHTS	
LIFT BRIDGE	
QUEUE DETECTION	

NORMAL PHASING PATTERN



PREEMPTION CLEARANCE PHASE



GENERAL NOTES:

1. CABINET HAS BATTERY BACKUP

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
PLAN LOOP DETECTOR*(S)	11	21	23	31	41	43	52	63
CALLED PHASE	1	2	2	3	4	4	5	6
CALL OPTION	X	X	X	X		X	X	X
DELAY TIME								
EXTENTION OPTION	X	X	X	X	X	X	X	X
EXTEND TIME					X			
USE ADDED INITIAL		X	X					X
CROSS SWITCH PHASE	2			4			6	

	19	17	23	21	27	25	31	29
	71	81	S1	S3	S5			
	7	8						
	X	X						
	X	X						
	8							

	35	33	39	37	43	41	47	45	
DETECTOR INPUT									
PLAN LOOP DETECTOR*(S)	61								
CALLED PHASE	6								
CALL OPTION	X								
DELAY TIME									
EXTENTION OPTION	X								
EXTEND TIME									
USE ADDED INITIAL									
CROSS SWITCH PHASE									

DETECTOR INPUT	4	2	8	6	12	10	16	14
PLAN LOOP DETECTOR*(S)	12	22	24	32	42	51	62	64
CALLED PHASE	1	2	2	3	4	5	6	6
CALL OPTION	X	X	X	X	X	X	X	X
DELAY TIME				X				
EXTENTION OPTION	X	X	X	X	X	X	X	X
EXTEND TIME								
USE ADDED INITIAL		X	X				X	X
CROSS SWITCH PHASE	2			4		6		

	20	18	24	22	28	26	32	30
	72	82	S2	S4	S6			
	7	8						
	X	X						
	X							
	X	X						
	8							

	36	34	40	38	44	42	48	46	
DETECTOR INPUT									
PLAN LOOP DETECTOR*(S)									
CALLED PHASE									
CALL OPTION									
DELAY TIME									
EXTENTION OPTION									
EXTEND TIME									
USE ADDED INITIAL									
CROSS SWITCH PHASE									

STH 100 & N. DEERBROOK TRL
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO: S40-1473 CABINET TYPE: TS2-E
CONTROLLER TYPE: ECONOLITE
DATE: 07/2021 PAGE NUMBER: 3 OF 3

2

PROJECT ID:	2270-04-70
INTERSECTION:	STH 100 & N DEERBROOK TRL

SIGNAL WIRE COLOR CODING	BLK-BLACK	RED-RED	GRN-GREEN
	WHT-WHITE	BLU-BLUE	ORG-ORANGE

CB1 TO	NO. OF CONDUCTORS	HEAD NO.	RED	YELLOW	GREEN	<RED>	<YELLOW>	<GREEN>	FLASHING <YELLOW>	D/WALK	WALK	PED BUTTON	OTHER
SB1	12	15	RED/BLK	ORG/BLK	GRN/BLK								
		23				RED	ORG	GRN	BLK/WHT				
		27								BLK	BLU		
		B										WHT/BLK	
SB2	12	21	RED	ORG	GRN								
		22	RED	ORG	GRN								
		24				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
		28								BLK	BLU		
		B										WHT/BLK	
SB3	12	6				RED	ORG	GRN	BLK/WHT				
		8	RED/BLK	ORG/BLK	GRN/BLK								
		29								BLK	BLU		
		B										WHT/BLK	
SB4	7	7				RED	ORG	GRN	BLK				
		B										WHT/BLK	
SB5	7	12				RED	ORG	GRN	BLK				
SB8	12	2	RED	ORG	GRN								
		3	RED	ORG	GRN								
		4	RED	ORG	GRN								
		30								BLK	BLU		
		B										WHT/BLK	
SB9	12	18				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
		20	RED	ORG	GRN								
		31								BLK	BLU		
		B										WHT/BLK	
SB10	12	16	RED	ORG	GRN								
		17	RED	ORG	GRN								
		19				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
		32								BLK	BLU		
		B										WHT/BLK	
SB11	12	1	RED	ORG	GRN								
		13				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
		25								BLK	BLU		
		B										WHT/BLK	
SB12	7	14				RED	ORG	GRN	BLK				
		B										WHT/BLK	
SB13	7	5				RED	ORG	GRN	BLK				
SB16	12	9	RED	ORG	GRN								
		10	RED	ORG	GRN								
		11	RED	ORG	GRN								
		26								BLK	BLU		
		B										WHT/BLK	

NOTES: USE WHITE CONDUCTOR IN THE SIGNAL CABLE AS THE GROUNDED CONDUCTOR FOR ALL TRAFFIC SIGNAL INDICATIONS.
ENSURE THE GROUNDED CONDUCTOR IN THE FEEDER CABLE AND THE POLE CABLES ARE BOTH 18" LONGER THAN THE UNGROUNDED CONDUCTORS.
AT THE SIGNAL BASES, CONNECT ONE TERMINAL FROM THE PEDESTRIAN PUSH BUTTONS TO THE COLOR INDICATED IN THE CHART. CONNECT THE OTHER TERMINAL TO THE GROUNDED CONDUCTOR.

WISCONSIN
ALICIA M. DOUGHERTY
E-43022
PEWAUKEE, WI
PROFESSIONAL ENGINEER

04/28/2021

Alicia M Dougherty

(CONTINUED ON NEXT SHEET)

FILE NAME : I:\64008_STH_57\22700400\SIG\S40-xxxx\eng\024020_sp_cr.ppt PLOT DATE : 3/26/2021 2:38:16 PM PLOT BY : HNTB PLOT NAME : 024020_sp_cr‹#› PLOT SCALE : 1:1

2

(CONTINUED)

EQUIPMENT GROUNDING CONDUCTOR 10 AWG GRN XLP	
FROM	TO
CB1	SB1
SB1	SB2
SB2	SB3
SB3	SB4
SB4	SB5
SB5	SB8
SB8	SB9
SB9	SB10
SB10	SB11
SB11	SB12
SB12	SB13
SB13	SB16
SB16	CB1

LIGHTING UF 10 AWG W/ GROUND	
FROM	TO
CB1	SB2
SB2	SB4
SB4	SB6
SB6	SB7
CB1	SB12
SB12	SB14
SB14	SB15
SB12	SB10

PULL BOX BONDING JUMPER 10 AWG GRN XLP	
FROM	TO
PB1	CB1
PB4	SB2
PB5	SB3
PB8	SB4
PB10	SB5
PB11	SB8
PB13	SB9
PB15	SB10
PB16	SB11
PB18	SB12
PB19	SB13
PB20	CB1
PB23	CB1

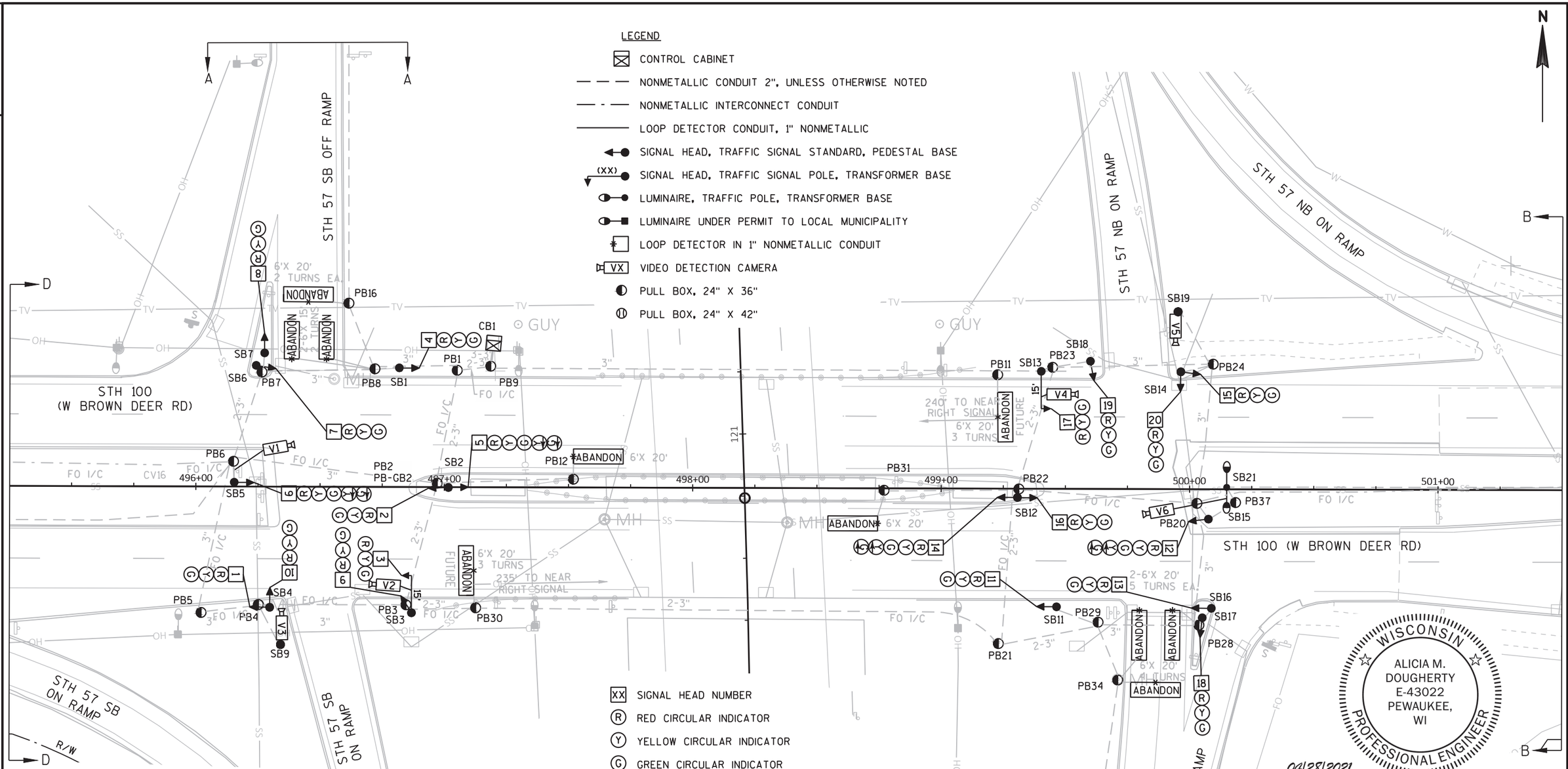
EMERGENCY VEHICLE PREEMPTION	
FROM	TO
CB1	SB2 (HEAD D)
CB1	SB8 (HEAD B)
CB1	SB10 (HEAD C)
CB1	SB16 (HEAD A)

RADAR DETECTION CABLE	
FROM	TO
CB1	SB12 (RA1)

PAGE 2 OF 2

PROJECT NO: 2270-04-70	HWY: STH 100	COUNTY: MILWAUKEE	CABLE ROUTING – STH 100 & N DEERBROOK TRL	SHEET:	E

FILE NAME : I:\64008_STH_57\22700400\SIG\S40-xxxx\eng\024020_sp_cr.ppt PLOT DATE : 3/26/2021 2:38:16 PM PLOT BY : HNTB PLOT NAME : 024020_sp_cr‹#› PLOT SCALE : 1:1



CONSTRUCTION NOTES:

1. EXISTING CONDUIT RUNS TO BE ABANDONED IN PLACE. CONTRACTOR TO REMOVE ANY CONDUCTORS REMAINING IN THE CONDUIT.
2. ABANDONED LOOP DETECTOR CONDUIT TO REMAIN IN PLACE. LOOP DETECTOR WIRE AND LEAD-IN CABLE TO BE REMOVED BY THE CONTRACTOR.
3. CABINET AND CONTROLLER SHALL BE REMOVED BY WISDOT ELECTRICAL PERSONNEL.
4. THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.

WISCONSIN
ALICIA M. DOUGHERTY
E-43022
PEWAUKEE, WI
PROFESSIONAL ENGINEER

04/28/2021

Alicia M Dougherty

TRAFFIC CONTROL SIGNAL
STH 57 & STH 100
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO. S40-1163

REGION CONTACT: JOYCE MURPHY
DESIGNED BY: HNTB
REVISED:

PAGE 1 OF 3

PROJECT NO: 2270-04-70	HWY: STH 57/100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 340	E

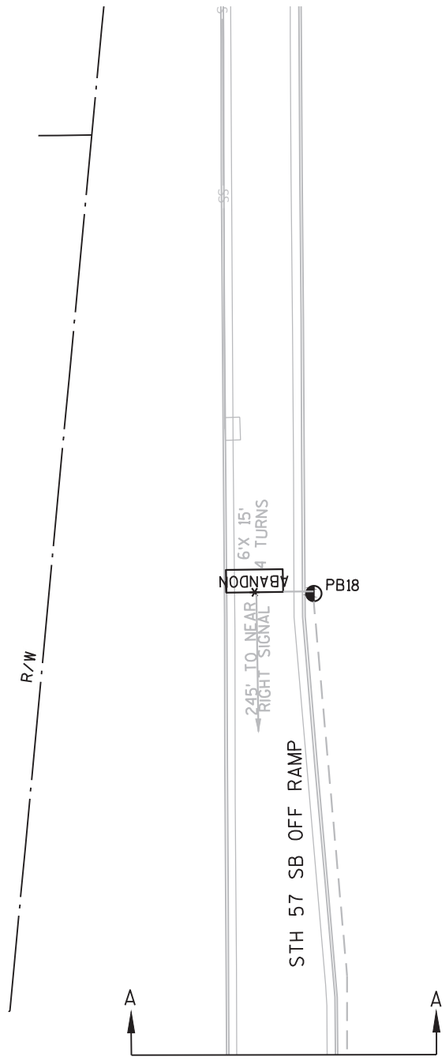
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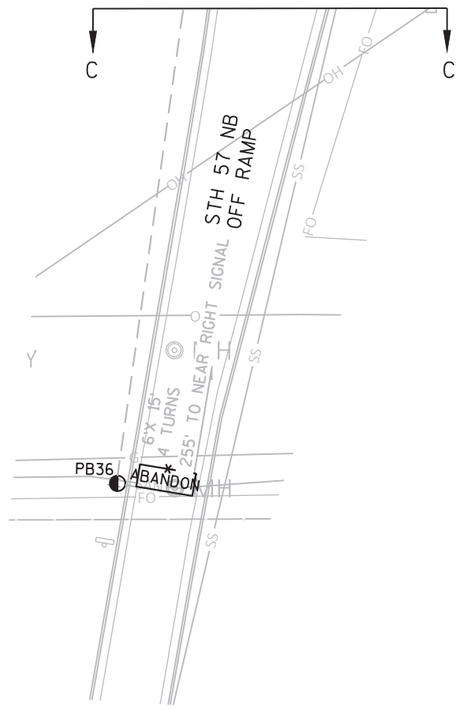
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WISDOT/CADDS SHEET 42

2

N





TRAFFIC CONTROL SIGNAL
STH 57 & STH 100
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO. S40-1163

REGION CONTACT: JOYCE MURPHY
DESIGNED BY: HNTB
REVISED BY:

PAGE 2 OF 3

PROJECT NO: 2270-04-70	HWY: STH 57/100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 341	E

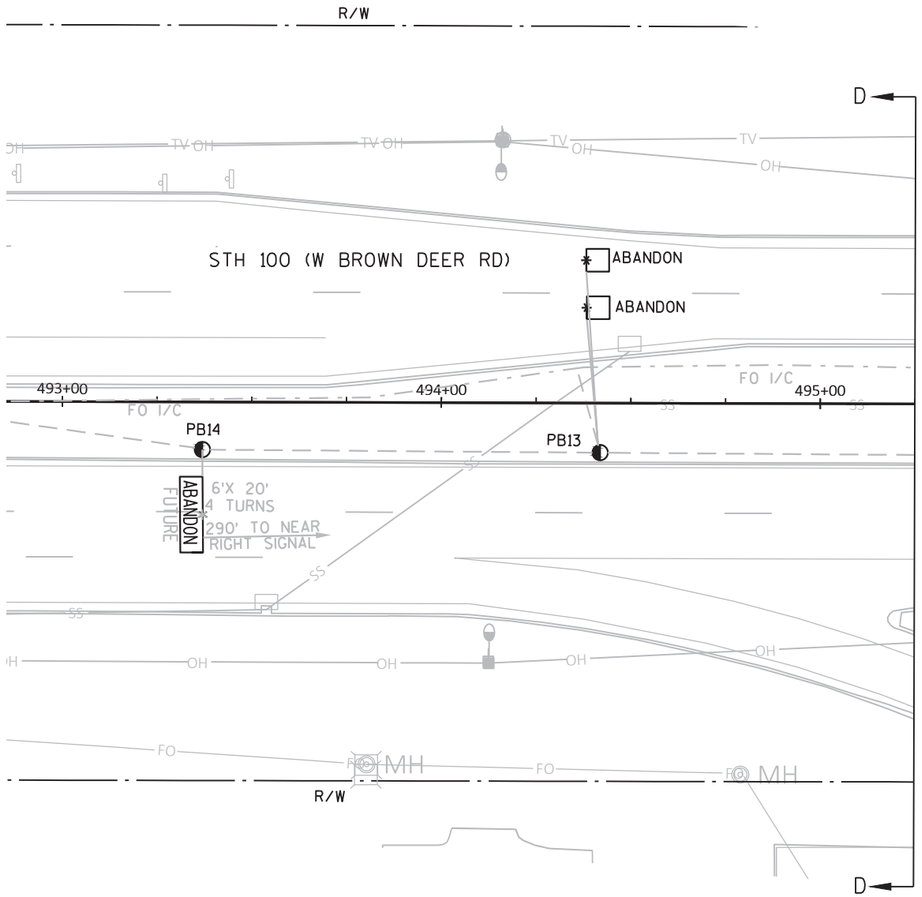
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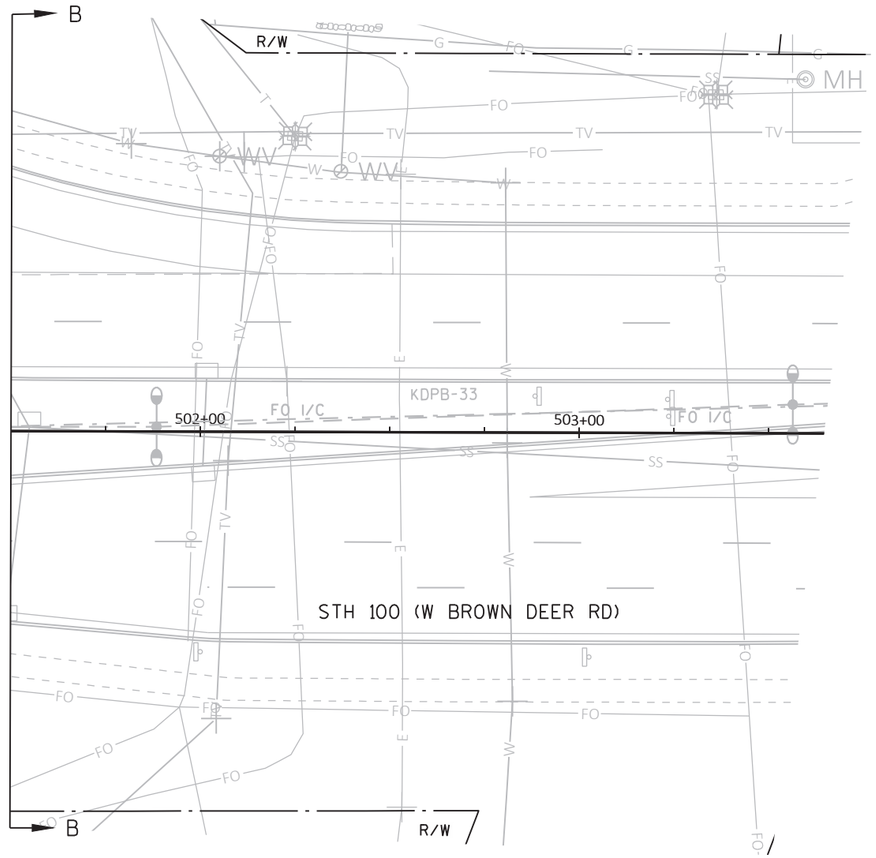
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WISDOT/CADDS SHEET 42

2

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TRAFFIC CONTROL SIGNAL
STH 57 & STH 100
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO. S40-1163

REGION CONTACT: JOYCE MURPHY
DESIGNED BY: HNTB
REVISED BY:

PAGE 3 OF 3

PROJECT NO: 2270-04-70	HWY: STH 57/100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 342	E

FILE NAME : I:\64008_STH_57\22700400\SIG\S40-1163\S40-1163_REM.DWG
LAYOUT NAME - S40-1163_rem3

PLOT DATE : 3/29/2021 10:50 AM PLOT BY : ALICIA DOUGHERTY PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC INTERCONNECT CONDUIT
- LOOP DETECTOR CONDUIT, 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 15'-30' ARM
- (XX) MONOTUBE BASE, POLE, 35'-45' ARM
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT

LEGEND CON'T

- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- SIGNAL HEAD NUMBER
- RED CIRCULAR INDICATOR
- YELLOW CIRCULAR INDICATOR
- GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- EVP DESIGNATOR
- EVP DETECTOR HEAD
- COMMUNICATIONS VAULT

NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING.

N

STH 100 (W BROWN DEER RD)

STH 57 (N GREEN BAY RD)

SPEED LIMIT= 40 MPH

R/W IS OFF PAGE

ICPB496 FO I/C

ICPB500

ICP575

CV496

CV500

CCTV-40-XXXX SEE INTERCONNECT PLANS FOR DETAILS

3-6'x6' 3 TURNS EA.

3-6'x6' 5 TURNS EA.

4-6'x20' 3 TURNS EACH

6-6'x20' 3 TURNS EA.

4-6'x20' 3 TURNS EA.

3-6'x6 5 TURNS EA.

4-6'x20' 4 TURNS EA.

3-6'x10' 5 TURNS EA.

6-6'x20' 4 TURNS EA.

200' TO NEAR RIGHT SIGNAL

CONSTRUCTION NOTES:

1. * LOCATION IS TO FRONT CENTER OF DETECTOR LOOP.
2. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM. CONTACT THE WISDOT ELECTRICAL FIELD UNIT TO MAKE ARRANGEMENTS. (414) 266-1170.
3. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
4. INSTALL CABINET BASE 6" ABOVE ROADWAY ELEVATION.
5. ALL LUMINAIRES ARE LED-C UNLESS OTHERWISE NOTED.
6. PROPOSED STORM SEWER, FTMS, AND DETECTABLE WARNING FIELDS ARE SHOWN GRAYSHADED FOR PLAN CLARITY.

MONOTUBE STRUCTURE NUMBERS	
SB2	S40-2064-01
SB4	S40-2064-02
SB12	S40-2064-03
SB14	S40-2064-04
SB18	S40-2064-05
SB20	S40-2064-06
SB27	S40-2064-07
SB29	S40-2064-08

WISCONSIN
ALICIA M. DOUGHERTY
E-43022
PEWAUKEE, WI
PROFESSIONAL ENGINEER

04/27/2021

TRAFFIC CONTROL SIGNAL
STH 57 & STH 100
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO. S40-1163
CABINET TYPE: TS2-S
CONTROLLER TYPE: ECONOLITE

WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVAL RECOMMENDED
DATE 4/28/2021 — REGION TRAFFIC ENGINEER

APPROVED
DATE 4/29/2021 — STATE TRAFFIC ENGINEER

REGION CONTACT: JOYCE MURPHY
DESIGNED BY: HNTB
REVISED BY:

PAGE 1 OF 5

PROJECT NO: 2270-04-70	HWY: STH 57/100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 343 E

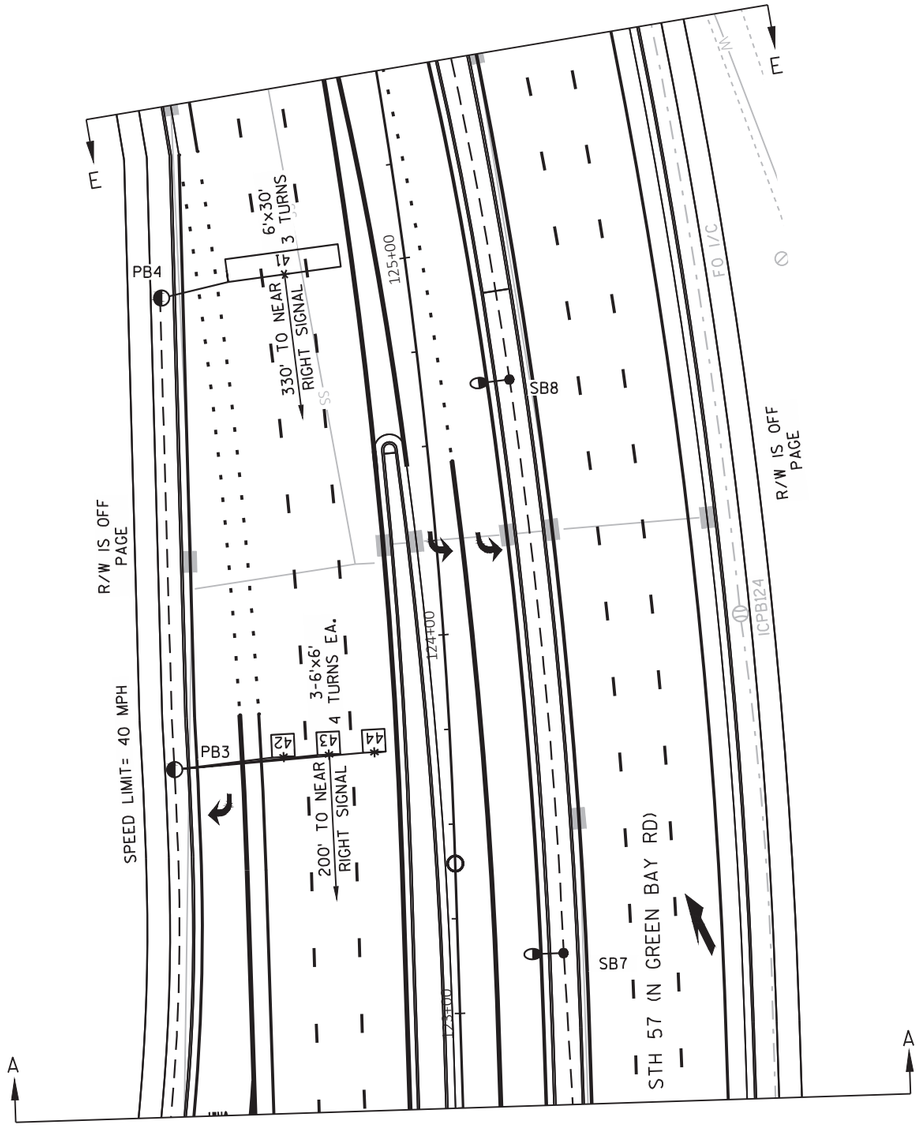
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LAYOUT NAME - S40-1163_1

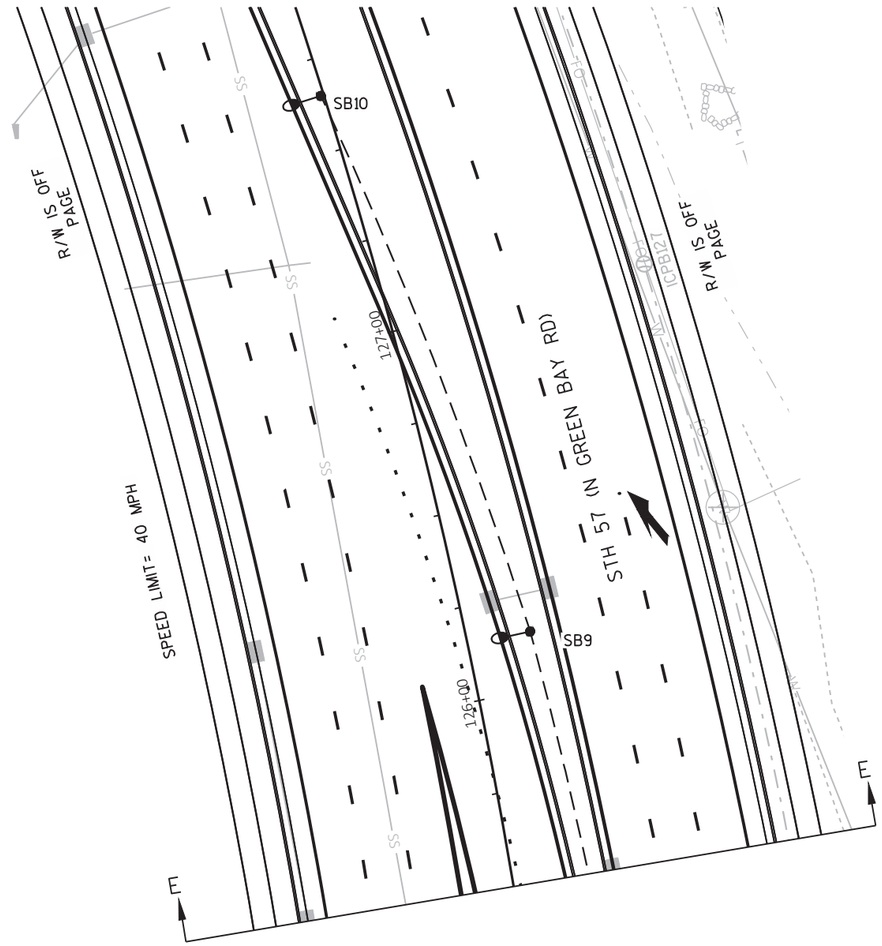
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WISDOT/CADDS SHEET 42

2

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TRAFFIC CONTROL SIGNAL
STH 57 & STH 100
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO. S40-1163

REGION CONTACT: JOYCE MURPHY
DESIGNED BY: HNTB
REVISED BY:

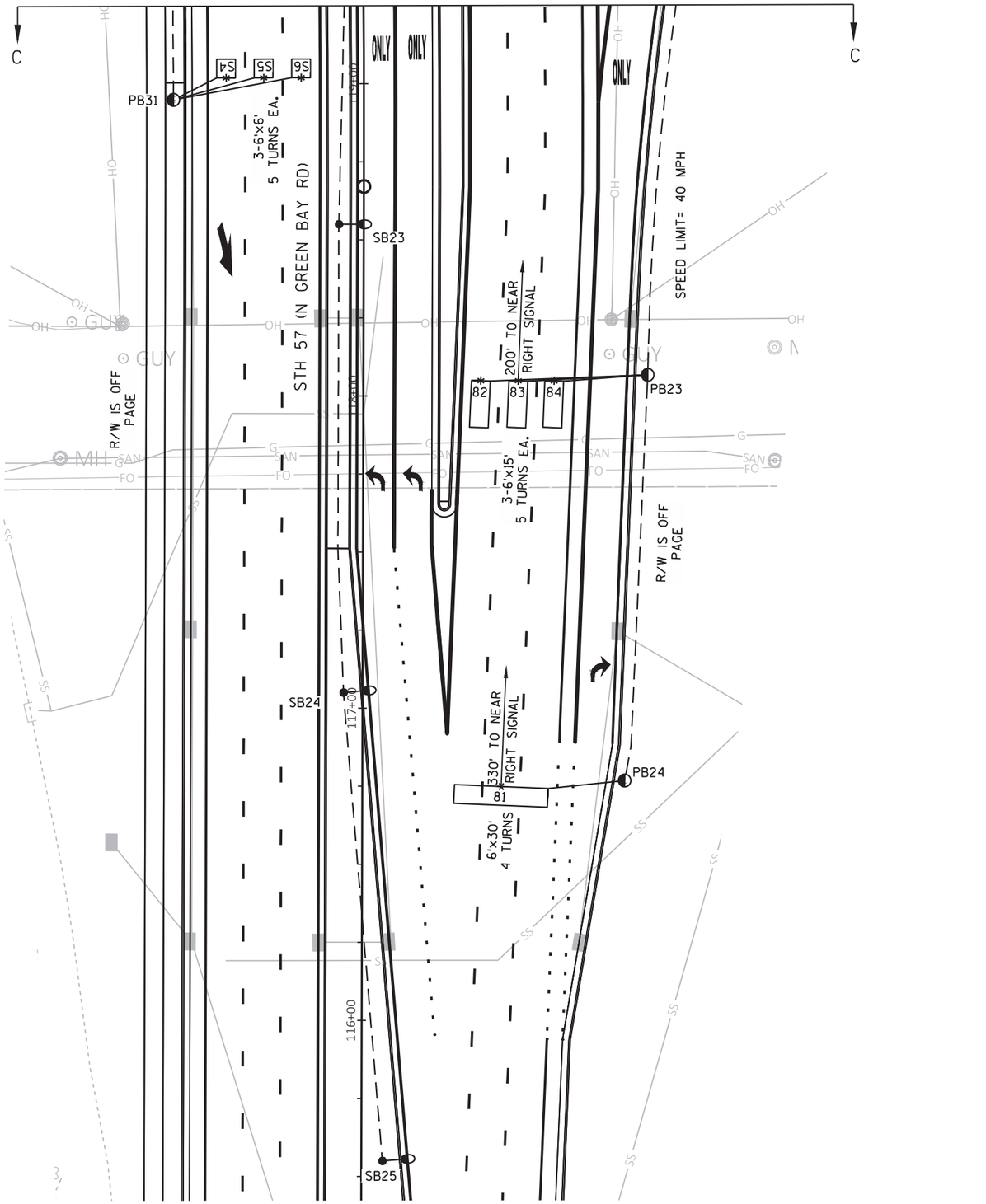
PAGE 2 OF 5

PROJECT NO: 2270-04-70	HWY: STH 57/100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 344	E

FILE NAME : I:\64008_STH_57\22700400\SIG\S40-1163\S40-1163.DWG
LAYOUT NAME - S40-1163_2

PLOT DATE : 4/27/2021 1:33 PM PLOT BY : ALICIA DOUGHERTY PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42



TRAFFIC CONTROL SIGNAL
STH 57 & STH 100
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO. S40-1163

REGION CONTACT: JOYCE MURPHY
DESIGNED BY: HNTB
REVISED BY:

PAGE 3 OF 5

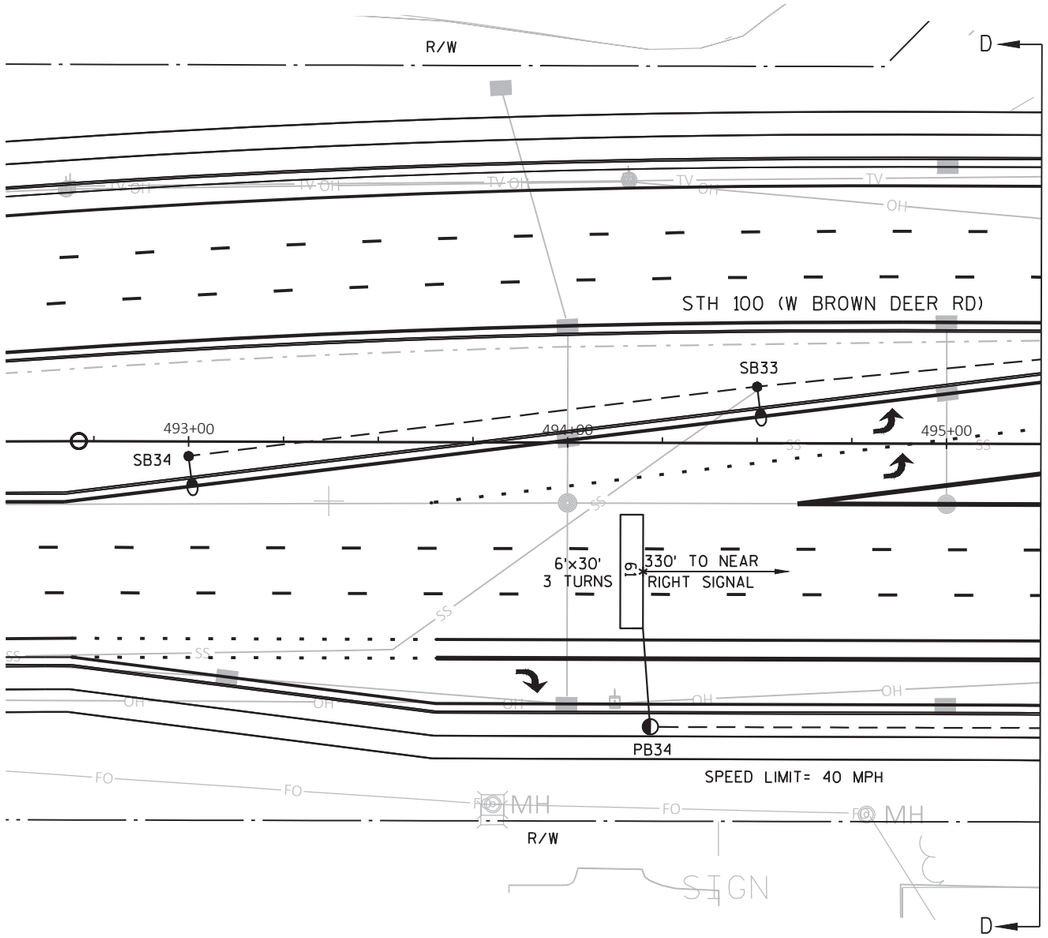
PROJECT NO: 2270-04-70	HWY: STH 57/100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 345	E

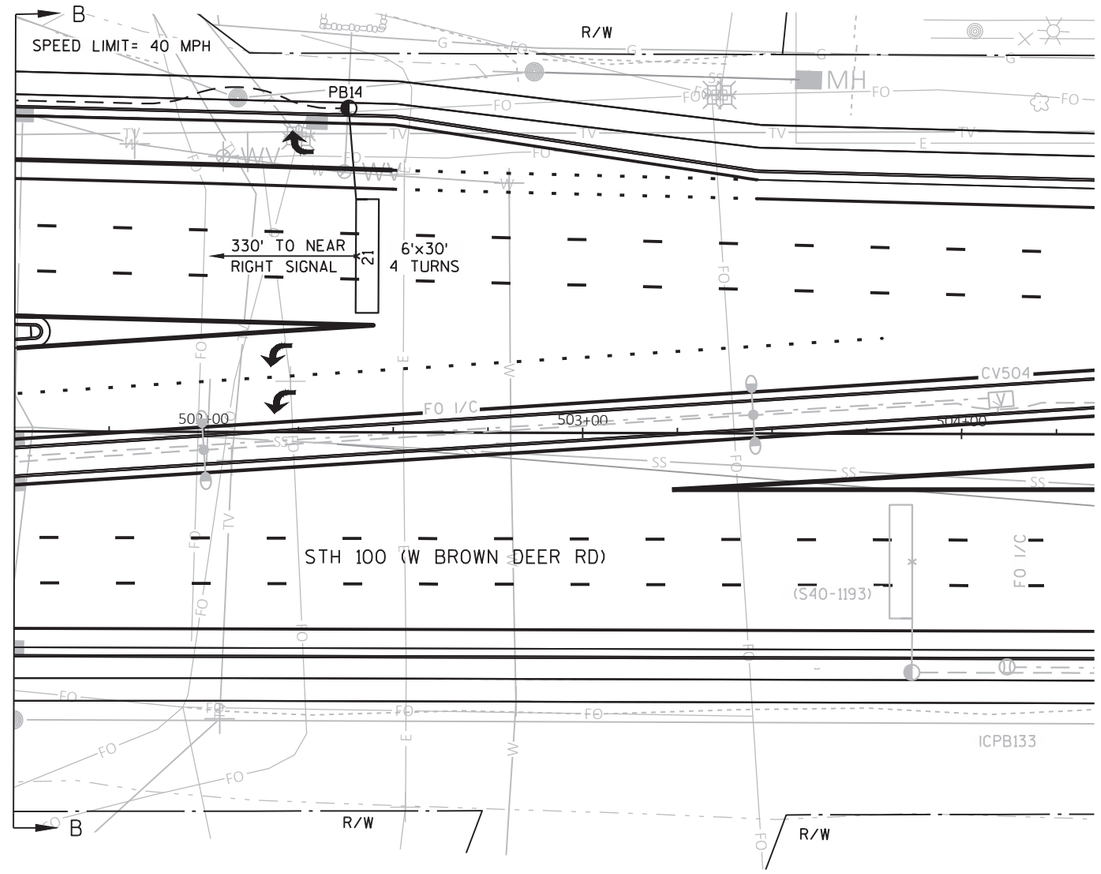
FILE NAME : I:\64008_STH_57\22700400\SIG\S40-1163\S40-1163.DWG
LAYOUT NAME - S40-1163_3

PLOT DATE : 4/27/2021 1:34 PM PLOT BY : ALICIA DOUGHERTY PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N





TRAFFIC CONTROL SIGNAL
STH 57 & STH 100
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO. S40-1163

REGION CONTACT: JOYCE MURPHY
DESIGNED BY: HNTB
REVISED BY:

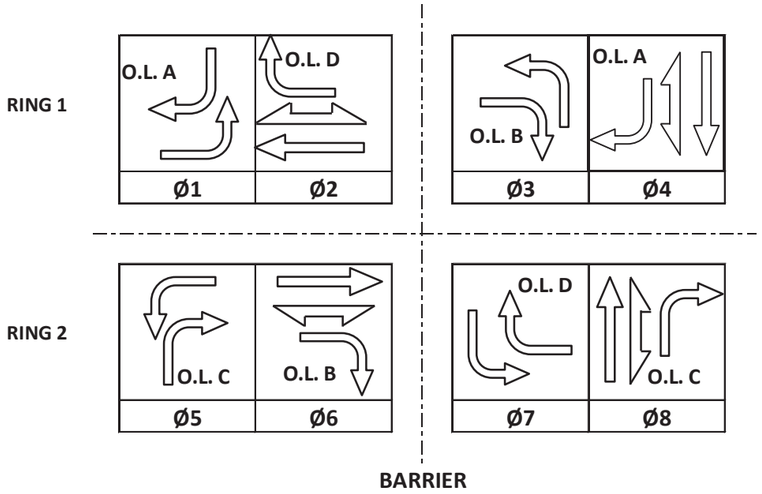
PAGE 4 OF 5

PROJECT NO: 2270-04-70	HWY: STH 57/100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 346	E

FILE NAME : I:\64008_STH_57\22700400\SIG\S40-1163\S40-1163.DWG
LAYOUT NAME - S40-1163_4

PLOT DATE : 4/27/2021 1:34 PM PLOT BY : ALICIA DOUGHERTY PLOT NAME : PLOT SCALE : 1 IN:40 FT

	HEAD NUMBERS	FLASH
Ø1	5,6,7	R ←
Ø2	11,12,13,14	R
Ø3	35,36,37	R ←
Ø4	21,22,23,24	R
Ø5	15,16,17	R ←
Ø6	1,2,3,4	R
Ø7	25,26,27	R ←
Ø8	31,32,33,34	R
Ø2P	43,44	
Ø4P	41,42	
Ø6P	47,48	
Ø8P	45,46	
OLA	28,29,30	R
OLB	8,9,10	R
OLC	38,39,40	R
OLD	18,19,20	R



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN	X
3		8		X
4		8		X
5		2		X
6	X	2	MIN	X
7		4		X
8		4		X

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT	←	→	↓	↑
PHASE	2+5	6+1	4+7	8+3

AFTER PREEMPTION SEQUENCE 2+5 OR 6+1, CONTROLLER SHALL RETURN TO PHASES 2+6.
AFTER PREEMPTION SEQUENCE 4+7 OR 8+3, CONTROLLER SHALL RETURN TO PHASES 4+8.

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	X
RADIO	
CELL MODEM	

TYPE OF COORDINATION	
NONE	
TBC	
TRAFFIC RESPONSIVE	X
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS- 0015

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	X
TOMAR	
HARDWIRE	
OTHER	
CONFIRMATION LIGHTS	
LIFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
PLAN LOOP DETECTOR*(S)	11	13	21	23	31	33	41	43
CALLED PHASE	1	1	2	2	3	3	4	4
CALL OPTION	X	X	X	X	X	X	X	X
DELAY TIME								
EXTENTION OPTION	X	X	X	X	X	X	X	X
EXTEND TIME							X	X
USE ADDED INITIAL			X	X				
CROSS SWITCH PHASE								

	19	17	23	21	27	25	31	29
	45	47	49	51	53	61	63	71
	4	4	4	5	5	6	6	7
	X	X	X	X	X	X	X	X
	X	X	X	X	X	X	X	X
						X	X	

	35	33	39	37	43	41	47	45
	73	81	83	85	87	89		
	7	8	8	8	8	8		
	X	X	X	X	X	X		
	X	X	X	X	X	X		
		X	X					

	51	49	55	53	59	57	63	61	DETECTOR INPUT
	S1	S3	S5	S7	S9	S11			PLAN LOOP DETECTOR*(S)
									CALLED PHASE
									CALL OPTION
									DELAY TIME
									EXTENTION OPTION
									EXTEND TIME
									USE ADDED INITIAL
									CROSS SWITCH PHASE

DETECTOR INPUT	4	2	8	6	12	10	16	14
PLAN LOOP DETECTOR*(S)	12	14	22	24	32	34	42	44
CALLED PHASE	1	1	2	2	3	3	4	4
CALL OPTION	X	X	X	X	X	X	X	X
DELAY TIME								
EXTENTION OPTION	X	X	X	X	X	X	X	X
EXTEND TIME							X	X
USE ADDED INITIAL			X	X				
CROSS SWITCH PHASE								

	20	18	24	22	28	26	32	30
	46	48	410	52	54	62	64	72
	4	4	4	5	5	6	6	7
	X	X	X	X	X	X	X	X
	X	X	X	X	X	X	X	X
						X	X	

	36	34	40	38	44	42	48	46
	74	82	84	86	88	810		
	7	8	8	8	8	8		
	X	X	X	X	X	X		
	X	X	X	X	X	X		
		X	X					

	52	50	56	54	60	58	64	62	DETECTOR INPUT
	S2	S4	S6	S8	S10	S12			PLAN LOOP DETECTOR*(S)
									CALLED PHASE
									CALL OPTION
									DELAY TIME
									EXTENTION OPTION
									EXTEND TIME
									USE ADDED INITIAL
									CROSS SWITCH PHASE

STH 57 & STH 100
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO: S40-1163 CABINET TYPE: TS2-S
CONTROLLER TYPE: ECONOLITE
DATE: 04/2021 PAGE NUMBER: 5 OF 5

2

PROJECT ID:	2270-04-70
INTERSECTION:	STH 57 & STH 100

SIGNAL WIRE COLOR CODING	BLK-BLACK	RED-RED	GRN-GREEN
	WHT-WHITE	BLU-BLUE	ORG-ORANGE

CB1 TO	NO. OF CONDUCTORS	HEAD NO.	RED	YELLOW	GREEN	<RED>	<YELLOW>	<GREEN>	FLASHING <YELLOW>	D/WALK	WALK	PED BUTTON	OTHER
SB1	7	28	RED				ORG	GRN					
SB2	12	12	RED	ORG	GRN								
		13	RED	ORG	GRN								
		14	RED	ORG	GRN								
		42								BLK	BLU		
		B										WHT/BLK	
SB3	12	21	RED	ORG	GRN								
		43								BLK	BLU		
		B										WHT/BLK	
SB4	7	36				RED	ORG	GRN					
		37				RED	ORG	GRN					
		B										WHT/BLK	
SB5	12	19	RED/BLK				ORG/BLK	GRN/BLK					
		25				RED	ORG	GRN					
SB6	7	20	RED				ORG	GRN					
SB11	7	18	RED				ORG	GRN					
SB12	12	32	RED	ORG	GRN								
		33	RED	ORG	GRN								
		34	RED	ORG	GRN								
		44								BLK	BLU		
		B										WHT/BLK	
SB13	12	11	RED	ORG	GRN								
		45								BLK	BLU		
		B										WHT/BLK	
SB14	7	6				RED	ORG	GRN					
		7				RED	ORG	GRN					
		B										WHT/BLK	
SB15	12	39	RED				ORG	GRN					
		15				RED/BLK	ORG/BLK	GRN/BLK					
SB16	7	40	RED				ORG	GRN					
SB17	7	38	RED				ORG	GRN					
SB18	12	2	RED	ORG	GRN								
		3	RED	ORG	GRN								
		4	RED	ORG	GRN								
		46								BLK	BLU		
		B										WHT/BLK	
SB19	12	31	RED	ORG	GRN								
		47								BLK	BLU		
		B										WHT/BLK	

WISCONSIN
ALICIA M. DOUGHERTY
E-43022
PEWAUKEE, WI
PROFESSIONAL ENGINEER

04/28/2021

Alicia M Dougherty

(CONTINUED ON NEXT SHEET)

FILE NAME : I:\64008_STH_57\22700400\SIG\S40-1163\eng\024030_sp_cr.ppt PLOT DATE : 3/26/2021 11:10:03 AM PLOT BY : HNTB PLOT NAME : 024030_sp_cr‹#› PLOT SCALE : 1:1

2

(CONTINUED)

PROJECT ID:	2270-04-70
INTERSECTION:	STH 57 & STH 100

SIGNAL WIRE COLOR CODING	BLK-BLACK	RED-RED	GRN-GREEN
	WHT-WHITE	BLU-BLUE	ORG-ORANGE

CB1 TO	NO. OF CONDUCTORS	HEAD NO.	RED	YELLOW	GREEN	<RED>	<YELLOW>	<GREEN>	FLASHING <YELLOW>	D/WALK	WALK	PED BUTTON	OTHER
SB20	12	26				RED	ORG	GRN					
		27				RED	ORG	GRN					
		B										WHT/BLK	
SB21	12	9	RED/BLK				ORG/BLK	GRN/BLK					
		35				RED	ORG	GRN					
SB22	7	10	RED				ORG	GRN					
SB26	7	8	RED				ORG	GRN					
SB27	12	22	RED	ORG	GRN								
		23	RED	ORG	GRN								
		24	RED	ORG	GRN								
		48								BLK	BLU		
		B										WHT/BLK	
SB28	12	1	RED	ORG	GRN								
		41								BLK	BLU		
		B										WHT/BLK	
SB29	7	16				RED	ORG	GRN					
		17				RED	ORG	GRN					
		B										WHT/BLK	
SB30	12	5				RED/BLK	ORG/BLK	GRN/BLK					
		29	RED				ORG	GRN					
SB31	7	30	RED				ORG	GRN					

NOTES: USE WHITE CONDUCTOR IN THE SIGNAL CABLE AS THE GROUNDED CONDUCTOR FOR ALL TRAFFIC SIGNAL INDICATIONS.
ENSURE THE GROUNDED CONDUCTOR IN THE FEEDER CABLE AND THE POLE CABLES ARE BOTH 18" LONGER THAN THE UNGROUNDED CONDUCTORS.
AT THE SIGNAL BASES, CONNECT ONE TERMINAL FROM THE PEDESTRIAN PUSH BUTTONS TO THE COLOR INDICATED IN THE CHART. CONNECT THE OTHER TERMINAL TO THE GROUNDED CONDUCTOR.

(CONTINUED ON NEXT SHEET)

PROJECT NO: 2270-04-70	HWY: STH 57/100	COUNTY: MILWAUKEE	CABLE ROUTING – STH 57 & STH 100	SHEET: E

FILE NAME : I:\64008_STH_57\22700400\SIG\S40-1163\eng\024030_sp_cr.ppt PLOT DATE : 3/26/2021 11:10:03 AM PLOT BY : HNTB PLOT NAME : 024030_sp_cr‹#› PLOT SCALE : 1:1

2

(CONTINUED)

EQUIPMENT GROUNDING CONDUCTOR 10 AWG GRN XLP	
FROM	TO
CB1	SB1
SB1	SB2
SB2	SB3
SB3	SB4
SB4	SB5
SB5	SB6
SB6	SB11
SB11	SB12
SB12	SB13
SB13	SB14
SB14	SB15
SB15	SB16
SB16	SB17
SB17	SB18
SB18	SB19
SB19	SB20
SB20	SB21
SB21	SB22
SB22	SB26
SB26	SB27
SB27	SB28
SB28	SB29
SB29	SB30
SB30	SB31
SB31	CB1

LIGHTING UF 10 AWG W/ GROUND	
FROM	TO
CB1	SB1
SB1	SB4
SB4	SB7
SB7	SB8
SB8	SB9
SB9	SB10
SB4	SB11
SB11	SB14
SB14	SB17
CB1	SB32
SB32	SB33
SB33	SB34
SB32	SB29
SB29	SB26
SB26	SB20
SB20	SB23
SB23	SB24
SB24	SB25

PULL BOX BONDING JUMPER 10 AWG GRN XLP	
FROM	TO
PB1	CB1
PB2	CB1
PB5	SB2
PB6	SB4
PB7	SB4
PB9	SB5
PB10	SB11
PB12	SB11
PB15	SB12
PB16	SB14
PB17	SB14
PB19	SB15
PB20	SB17
PB22	SB17
PB25	SB18
PB26	SB20
PB27	SB20
PB29	SB21
PB30	SB26
PB32	SB26
PB35	SB27
PB36	SB29
PB37	SB29
PB38	SB29
PB39	SB30
PB40	SB30
PB41	CB1

EMERGENCY VEHICLE PREEMPTION	
FROM	TO
CB1	SB2 (HEAD A)
CB1	SB12 (HEAD D)
CB1	SB18 (HEAD B)
CB1	SB27 (HEAD C)

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC INTERCONNECT CONDUIT
- LOOP DETECTOR CONDUIT, 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 15'-30' ARM
- (XX) MONOTUBE BASE, POLE, 35'-55' ARM
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- VX VIDEO DETECTION CAMERA
- RADIO INTERCONNECT ANTENNA, 5.8GHz
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- XX SIGNAL HEAD NUMBER

LEGEND CONT.

- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- V COMMUNICATIONS VAULT
- LANE DESIGNATION FOR INFO ONLY

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING TO REMAIN.
BOLD REPRESENTS ITEMS TO BE REMOVED.

N

STH 100 (W BROWN DEER RD)

N KILDEER CT

R/W IS OFF THE PAGE

CONSTRUCTION NOTES:

1. EXISTING CONDUIT RUNS TO BE ABANDONED IN PLACE. CONTRACTOR TO REMOVE ANY CONDUCTORS REMAINING IN THE CONDUIT.
2. LOOP DETECTOR LEAD-IN CABLE AND LOOP WIRE TO BE REMOVED FROM LOOPS 11, 12, 61, AND 81. ALL OTHER LOOP DETECTOR LEAD-IN CABLE AND LOOP WIRE TO REMAIN IN PLACE.
3. CONCRETE BASES FOR SB1, SB2, SB3, SB4, SB5, SB6, SB15, SB16, SB17, SB18, AND SB19 TO REMAIN IN PLACE.
4. UNDERGROUND CABLE FOR SB1, SB2, SB3, SB4, SB5, SB6, SB15, SB16, SB17, SB18, AND SB19 TO REMAIN IN PLACE.
5. THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.

WISCONSIN
ALICIA M. DOUGHERTY
E-43022
PEWAUKEE, WI
PROFESSIONAL ENGINEER
06/14/2021

TRAFFIC CONTROL SIGNAL
STH 100 & N KILDEER CT
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

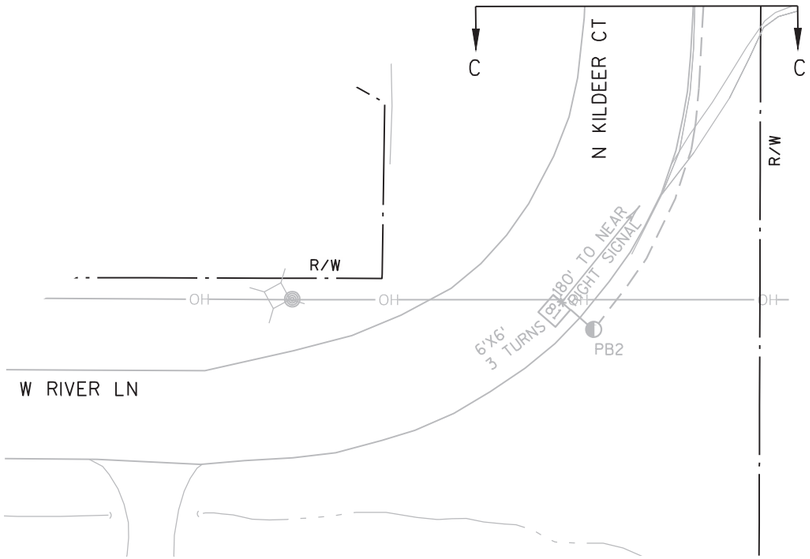
SIGNAL NO. S40-1193
REGION CONTACT: JOYCE MURPHY
DESIGNED BY: HNTB
REVISED BY:
PAGE 1 OF 3

PROJECT NO: 2270-04-70	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 351	E

FILE NAME : I:\64008_STH_57\22700400\SIG\S40-1193\S40-1193_REM.DWG
LAYOUT NAME - S40-1193_rem1
PLOT DATE : 6/9/2021 3:40 PM PLOT BY : ALICIA DOUGHERTY PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2





N

TRAFFIC CONTROL SIGNAL
STH 100 & N KILDEER CT
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO. S40-1193

REGION CONTACT: JOYCE MURPHY
DESIGNED BY: HNTB
REVISED BY:

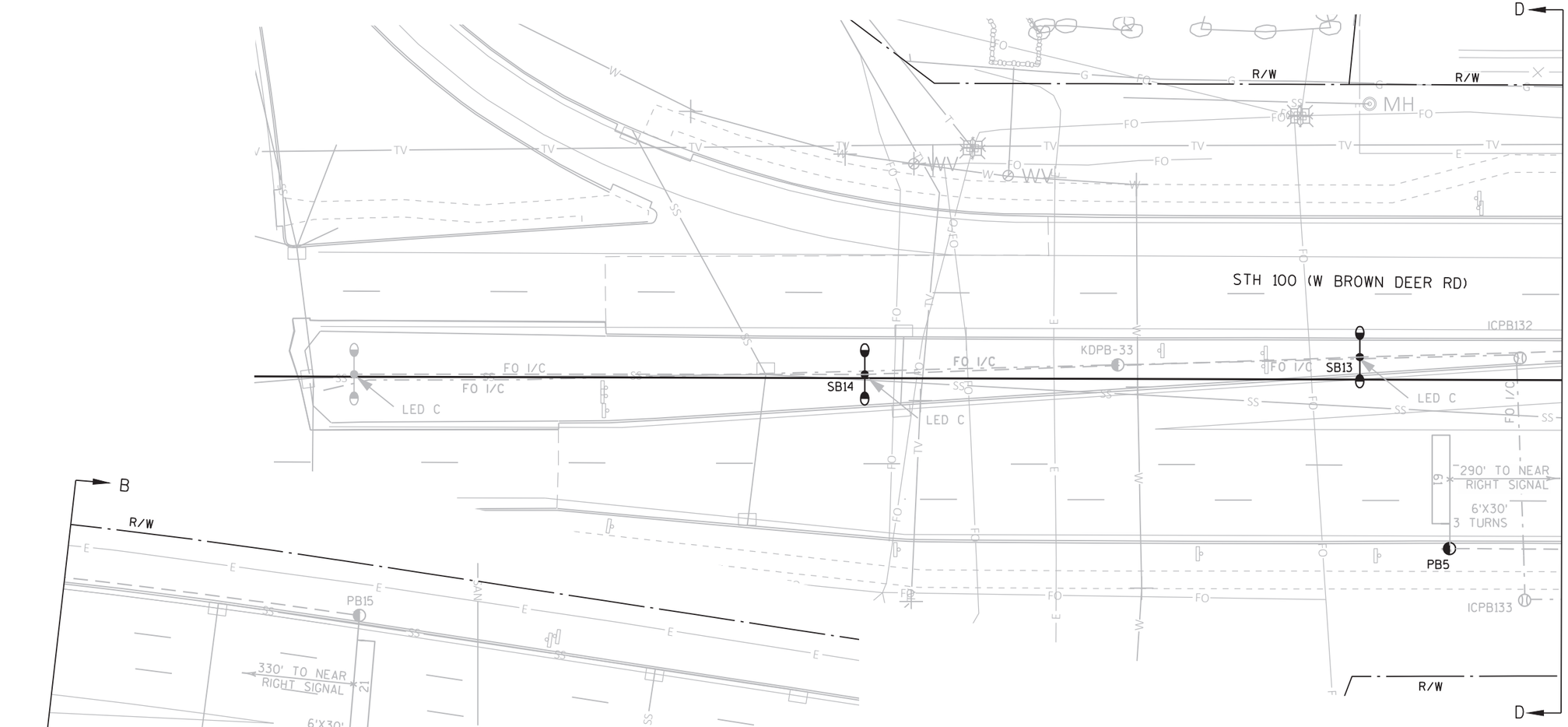
PAGE 2 OF 3

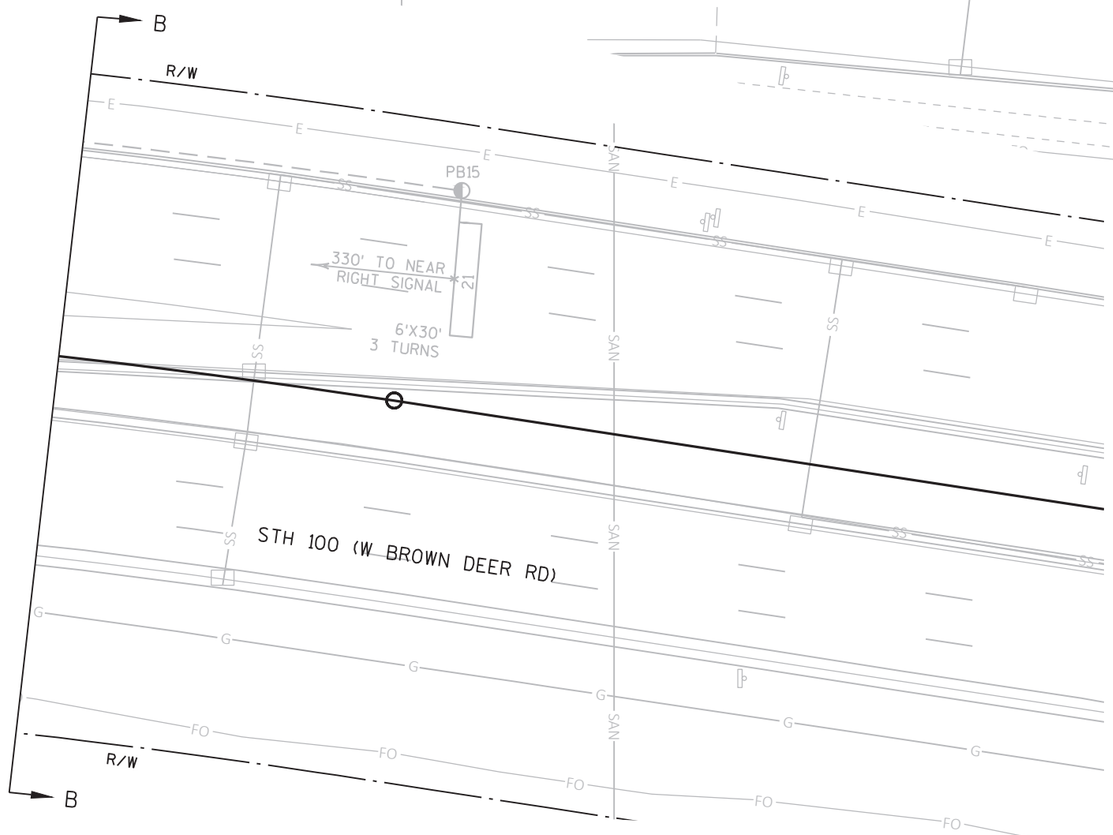
PROJECT NO: 2270-04-70	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 352	E

FILE NAME : I:\64008_STH_57\22700400\SIG\S40-1193\S40-1193_REM.DWG
LAYOUT NAME - S40-1193_rem2

PLOT DATE : 6/9/2021 12:54 PM PLOT BY : ALICIA DOUGHERTY PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42





2

N

TRAFFIC CONTROL SIGNAL
STH 100 & N KILDEER CT
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO. S40-1193

REGION CONTACT: JOYCE MURPHY
DESIGNED BY: HNTB
REVISED BY:

PAGE 3 OF 3

PROJECT NO: 2270-04-70	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 353	E

FILE NAME : I:\64008_STH_57\22700400\SIG\S40-1193\S40-1193_REM.DWG
LAYOUT NAME - S40-1193_rem3

PLOT DATE : 6/15/2021 3:17 PM PLOT BY : ALICIA DOUGHERTY PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

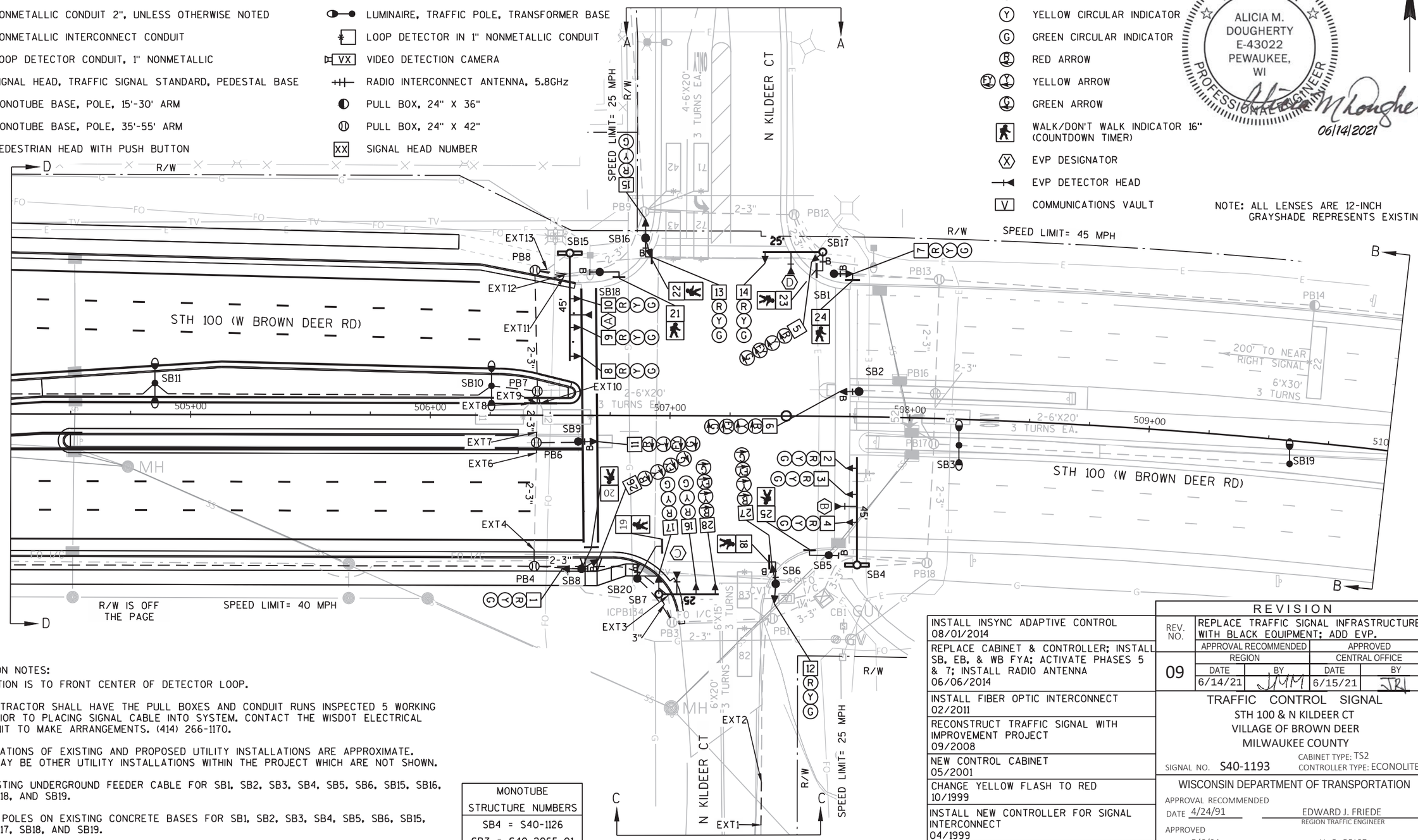
- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC INTERCONNECT CONDUIT
- LOOP DETECTOR CONDUIT, 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 15'-30' ARM
- (XX) MONOTUBE BASE, POLE, 35'-55' ARM
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- VX VIDEO DETECTION CAMERA
- RADIO INTERCONNECT ANTENNA, 5.8GHz
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- XX SIGNAL HEAD NUMBER

LEGEND CONT.

- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- R RED ARROW
- FY Y YELLOW ARROW
- G GREEN ARROW
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- X EVP DESIGNATOR
- EVP DETECTOR HEAD
- V COMMUNICATIONS VAULT

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

WISCONSIN
ALICIA M. DOUGHERTY
E-43022
PEWAUKEE, WI
PROFESSIONAL ENGINEER
06/14/2021



CONSTRUCTION NOTES:

1. * LOCATION IS TO FRONT CENTER OF DETECTOR LOOP.
2. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM. CONTACT THE WISDOT ELECTRICAL FIELD UNIT TO MAKE ARRANGEMENTS. (414) 266-1170.
3. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
4. USE EXISTING UNDERGROUND FEEDER CABLE FOR SB1, SB2, SB3, SB4, SB5, SB6, SB15, SB16, SB17, SB18, AND SB19.
5. INSTALL POLES ON EXISTING CONCRETE BASES FOR SB1, SB2, SB3, SB4, SB5, SB6, SB15, SB16, SB17, SB18, AND SB19.
6. ALL LUMINAIRES ARE LED-C UNLESS OTHERWISE NOTED.
7. PROPOSED STORM SEWER, FTMS, AND LIGHTING ARE SHOWN GRAYSHADED FOR PLAN CLARITY.

MONOTUBE STRUCTURE NUMBERS
SB4 = S40-1126
SB7 = S40-2065-01
SB15 = S40-1124
SB17 = S40-1125

INSTALL INSYNC ADAPTIVE CONTROL 08/01/2014
REPLACE CABINET & CONTROLLER; INSTALL SB, EB, & WB FYA; ACTIVATE PHASES 5 & 7; INSTALL RADIO ANTENNA 06/06/2014
INSTALL FIBER OPTIC INTERCONNECT 02/2011
RECONSTRUCT TRAFFIC SIGNAL WITH IMPROVEMENT PROJECT 09/2008
NEW CONTROL CABINET 05/2001
CHANGE YELLOW FLASH TO RED 10/1999
INSTALL NEW CONTROLLER FOR SIGNAL INTERCONNECT 04/1999
INSTALLED INTERCONNECT 03/1994
INITIAL INSTALL 1991

REVISION

REV. NO.	REPLACE TRAFFIC SIGNAL INFRASTRUCTURE WITH BLACK EQUIPMENT; ADD EVP.			
	APPROVAL RECOMMENDED		APPROVED	
09	REGION		CENTRAL OFFICE	
	DATE	BY	DATE	BY
	6/14/21	JMM	6/15/21	JRL

TRAFFIC CONTROL SIGNAL
STH 100 & N KILDEER CT
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO. S40-1193
CABINET TYPE: TS2
CONTROLLER TYPE: ECONOLITE

WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVAL RECOMMENDED
DATE 4/24/91 — EDWARD J. FRIEDE, REGION TRAFFIC ENGINEER

APPROVED
DATE 5/6/91 — H. O. PRICE, STATE TRAFFIC ENGINEER

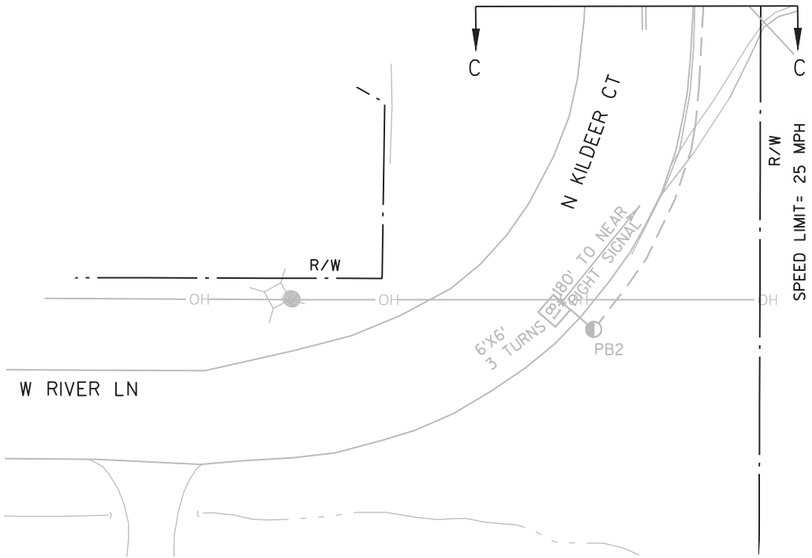
REGION CONTACT: JOYCE MURPHY
DESIGNED BY:
REVISED BY: HNTB

PROJECT NO: 2270-04-70	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 354	E

FILE NAME : I:\64008_STH_57\22700400\SIG\S40-1193\S40-1193.DWG
LAYOUT NAME - S40-1193_1
PLOT DATE : 6/14/2021 3:12 PM
PLOT BY : ALICIA DOUGHERTY
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

2





TRAFFIC CONTROL SIGNAL
STH 100 & N KILDEER CT
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO. S40-1193

REGION CONTACT: JOYCE MURPHY
DESIGNED BY:
REVISED BY: HNTB

PAGE 2 OF 4

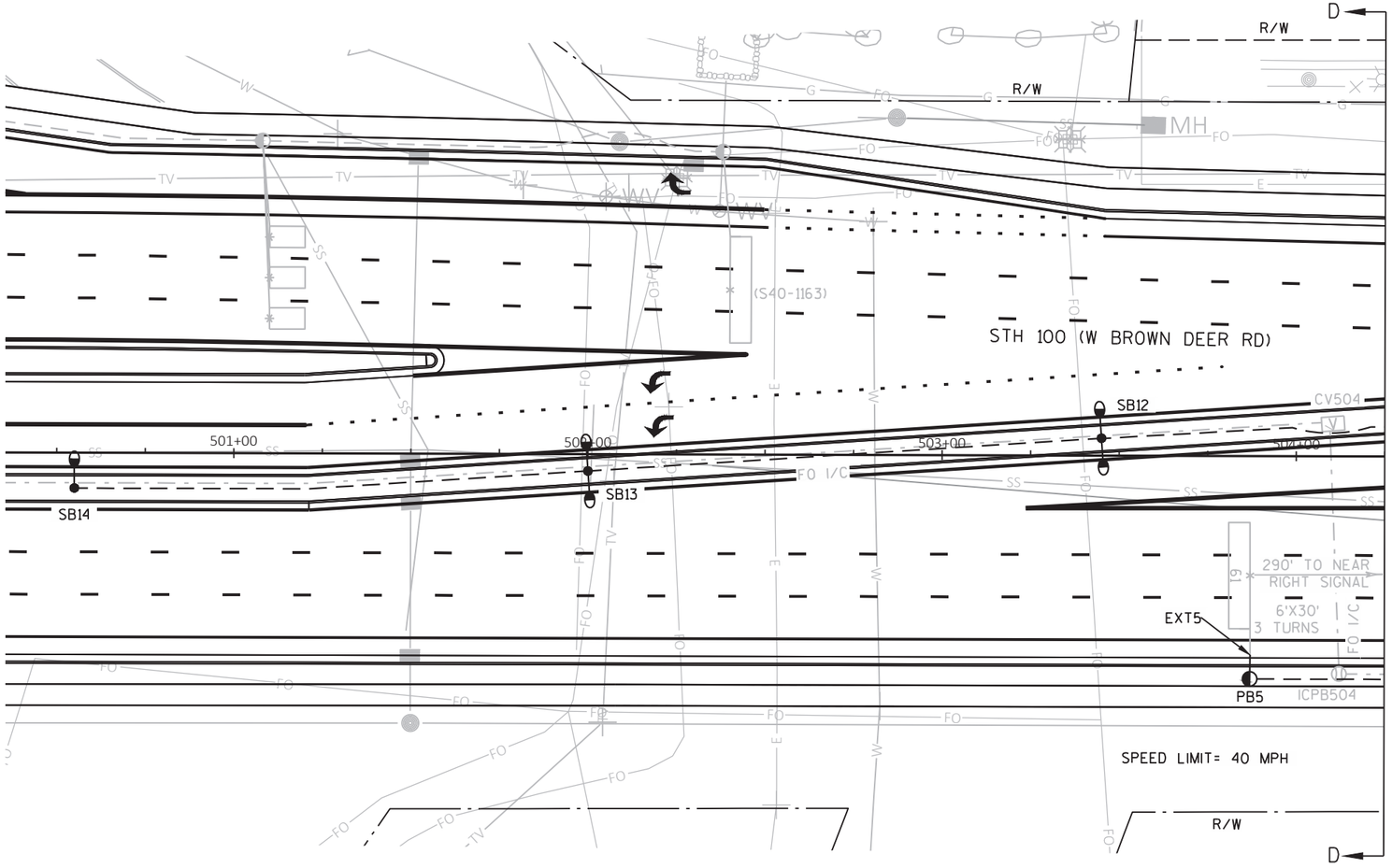
PROJECT NO: 2270-04-70	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 355	E

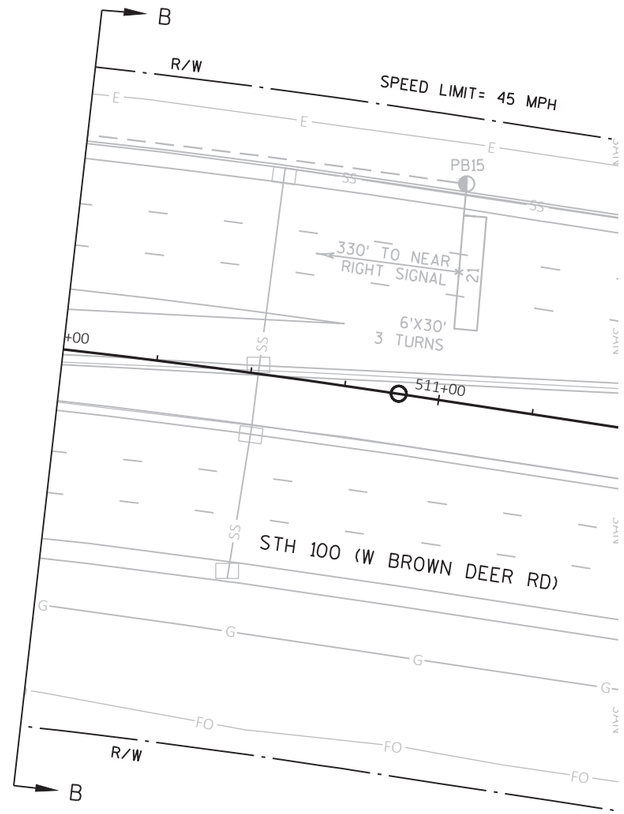
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LAYOUT NAME - S40-1193_2

PLOT DATE : 6/14/2021 12:32 PM PLOT BY : ALICIA DOUGHERTY PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N





TRAFFIC CONTROL SIGNAL
STH 100 & N KILDEER CT
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO. S40-1193

REGION CONTACT: JOYCE MURPHY
DESIGNED BY:
REVISED BY: HNTB

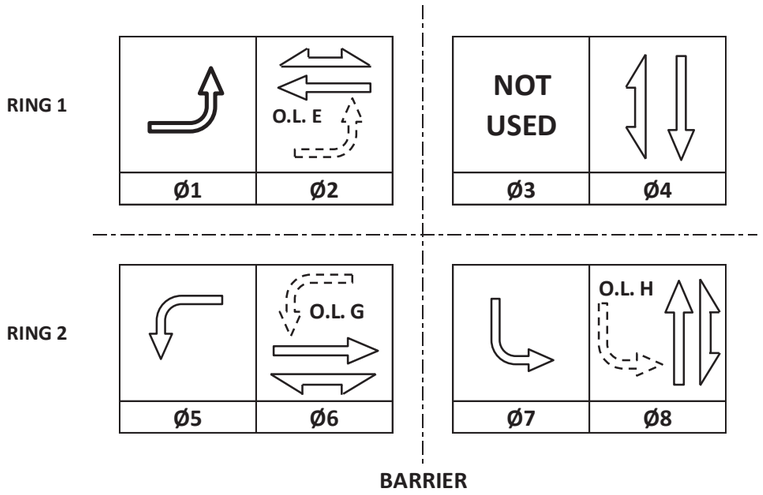
PAGE 3 OF 4

PROJECT NO: 2270-04-70	HWY: STH 100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 356	E

FILE NAME : I:\64008_STH_57\22700400\SIG\S40-1193\S40-1193.DWG
LAYOUT NAME - S40-1193_3

PLOT DATE : 6/14/2021 12:33 PM PLOT BY : ALICIA DOUGHERTY PLOT NAME : PLOT SCALE : 1 IN:40 FT

	HEAD NUMBERS	FLASH
Ø1	5,6	R ←
Ø2	7,8,9,10	R
Ø3		
Ø4	15,16,17	R
Ø5	11,26	R ←
Ø6	1,2,3,4	R
Ø7	27,28	R ←
Ø8	12,13,14	R
Ø2P	22,23	
Ø4P	20,21	
Ø6P	18,19	
Ø8P	24,25	
OLE	5,6	-
OLF		
OLG	11,26	-
OLH	27,28	-



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN	X
3				
4		8		X
5		2		X
6	X	2	MIN	X
7		4		X
8		4		X

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT				
PHASE	2+5	6+1	4+8	8+4

AFTER PREEMPTION SEQUENCE 2+5 OR 6+1, CONTROLLER SHALL RETURN TO PHASES 2+6.
AFTER PREEMPTION SEQUENCE 4+8 OR 8+4, CONTROLLER SHALL RETURN TO PHASES 4+8.

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	X
RADIO	X
CELL MODEM	

TYPE OF COORDINATION	
NONE	
TBC	
TRAFFIC RESPONSIVE	X
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS- 0015

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	X
TOMAR	
HARDWIRE	
OTHER	
CONFIRMATION LIGHTS	
LIFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
PLAN LOOP DETECTOR*(S)	11	21	41	43	52	71	81	83
CALLED PHASE	1	2	4	4	5	7	8	8
CALL OPTION	X	X		X	X	X		X
DELAY TIME				X		X		X
EXTENTION OPTION	X	X	X	X	X	X	X	X
EXTEND TIME			X				X	
USE ADDED INITIAL		X						
CROSS SWITCH PHASE	2				6	8		

19	17	23	21	27	25	31	29	DETECTOR INPUT
								PLAN LOOP DETECTOR*(S)
								CALLED PHASE
								CALL OPTION
								DELAY TIME
								EXTENTION OPTION
								EXTEND TIME
								USE ADDED INITIAL
								CROSS SWITCH PHASE

DETECTOR INPUT	4	2	8	6	12	10	16	14
PLAN LOOP DETECTOR*(S)	12	22	42	51	61	72	82	
CALLED PHASE	1	2	4	5	6	7	8	
CALL OPTION	X	X	X	X	X	X	X	
DELAY TIME			X			X	X	
EXTENTION OPTION	X	X	X	X	X	X	X	
EXTEND TIME								
USE ADDED INITIAL		X			X			
CROSS SWITCH PHASE	2			6		8		

20	18	24	22	28	26	32	30	DETECTOR INPUT
								PLAN LOOP DETECTOR*(S)
								CALLED PHASE
								CALL OPTION
								DELAY TIME
								EXTENTION OPTION
								EXTEND TIME
								USE ADDED INITIAL
								CROSS SWITCH PHASE

STH 100 & N KILDEER CT
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO: S40-1193 CABINET TYPE: TS2
CONTROLLER TYPE: ECONOLITE
DATE: 06/2021 PAGE NUMBER: 4 OF 4

2

PROJECT ID:	2270-04-70
INTERSECTION:	STH 100 & N KILDEER CT

SIGNAL WIRE COLOR CODING	BLK-BLACK	RED-RED	GRN-GREEN
	WHT-WHITE	BLU-BLUE	ORG-ORANGE

CB1 TO	NO. OF CONDUCTORS	HEAD NO.	RED	YELLOW	GREEN	<RED>	<YELLOW>	<GREEN>	FLASHING <YELLOW>	D/WALK	WALK	PED BUTTON	OTHER
SB7	12	16	RED	ORG	GRN								
		17	RED	ORG	GRN								
		28				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
SB20	7	19								BLK	BLU		
		B										WHT/BLK	
SB8	12	1	RED	ORG	GRN								
		26				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
		20								BLK	BLU		
		B										WHT/BLK	
SB9	7	11				RED	ORG	GRN	BLK				
		B										WHT/BLK	
SB15	7	8	RED	ORG	GRN								
		9	RED	ORG	GRN								
		10	RED	ORG	GRN								
SB18	7	21								BLK	BLU		
		B										WHT/BLK	

NOTES: USE WHITE CONDUCTOR IN THE SIGNAL CABLE AS THE GROUNDED CONDUCTOR FOR ALL TRAFFIC SIGNAL INDICATIONS.
ENSURE THE GROUNDED CONDUCTOR IN THE FEEDER CABLE AND THE POLE CABLES ARE BOTH 18" LONGER THAN THE UNGROUNDED CONDUCTORS.
AT THE SIGNAL BASES, CONNECT ONE TERMINAL FROM THE PEDESTRIAN PUSH BUTTONS TO THE COLOR INDICATED IN THE CHART. CONNECT THE OTHER TERMINAL TO THE GROUNDED CONDUCTOR.

USE EXISTING UNDERGROUND FEEDER CABLE FOR SB1, SB2, SB4, SB5, SB6, SB15, SB16, SB17, AND SB18.

WISCONSIN
ALICIA M. DOUGHERTY
E-43022
PEWAUKEE, WI
PROFESSIONAL ENGINEER

06/14/2021

(CONTINUED ON NEXT SHEET)

2

(CONTINUED)

EQUIPMENT GROUNDING CONDUCTOR 10 AWG GRN XLP *	
FROM	TO
SB6	SB7
SB7	SB20
SB20	SB8
SB8	SB9
SB9	SB15
SB15	SB18
SB18	SB16

LIGHTING UF 10 AWG W/ GROUND	
FROM	TO
CB1	SB10
SB10	SB11
SB11	SB12
SB12	SB13
SB13	SB14

PULL BOX BONDING JUMPER 10 AWG GRN XLP **	
FROM	TO
PB3	SB7
PB4	SB8
PB6	SB9
PB7	SB9
PB8	SB15

EMERGENCY VEHICLE PREEMPTION	
FROM	TO
CB1	SB7 (HEAD C)
CB1	SB15 (HEAD A)
CB1	SB17 (HEAD D)
CB1	SB4 (HEAD B)

* RE-INSTALL EQUIPMENT GROUNDING CONDUCTORS TO RE-ESTABLISH THE COMPLETE GROUNDING FROM BASE TO BASE WHERE THE EXISTING CIRCUIT IS DISTURBED BY CONSTRUCTION. RE-USE EXISTING WIRING WHERE POSSIBLE.

** RE-INSTALL PULL BOX BONDING JUMPER FOR ALL EXSITING PULL BOXES WHERE THE EXISTING BONDING JUMPER IS DISTURBED BY CONSTRUCTION. RE-USE EXISTING WIRING WHERE POSSIBLE.

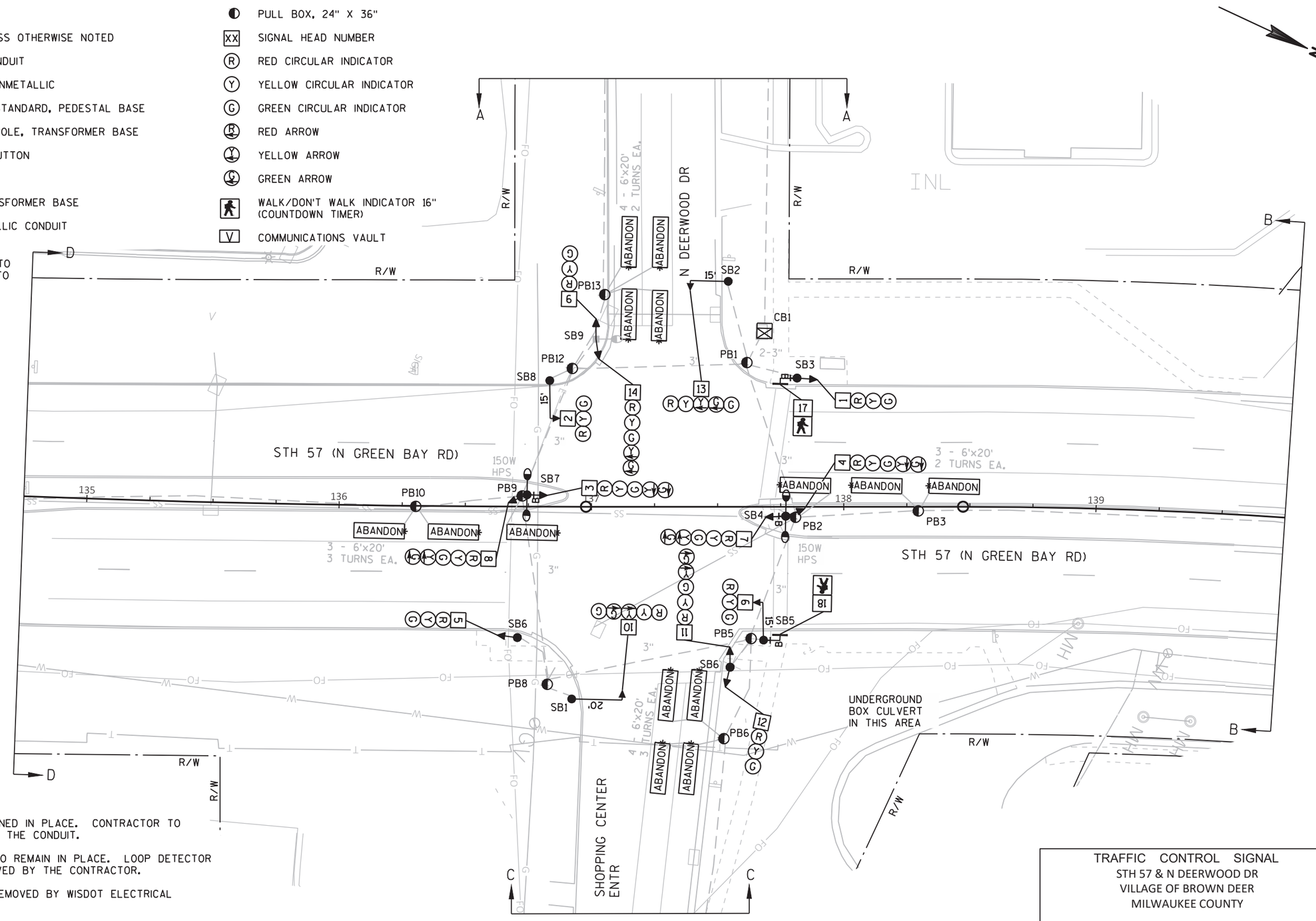
USE EXISTING UNDERGROUND EQUIPMENT GROUNDING CONDUCTOR AND PULL BOX BONDING JUMPER FOR SB1, SB2, SB4, SB5, SB6, SB15, SB16, SB17, AND SB18.

USE EXISTING LIGHTING UF 10 AWG W/ GROUND FOR SB3 AND SB19.

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC INTERCONNECT CONDUIT
- LOOP DETECTOR CONDUIT, 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- PULL BOX, 24" X 36"
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- V COMMUNICATIONS VAULT

NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING TO REMAIN. BOLD REPRESENTS ITEMS TO BE REMOVED.



WISCONSIN
ALICIA M. DOUGHERTY
E-43022
PEWAUKEE, WI
PROFESSIONAL ENGINEER

04/28/2021

Alicia M Dougherty

CONSTRUCTION NOTES:

1. EXISTING CONDUIT RUNS TO BE ABANDONED IN PLACE. CONTRACTOR TO REMOVE ANY CONDUCTORS REMAINING IN THE CONDUIT.
2. ABANDONED LOOP DETECTOR CONDUIT TO REMAIN IN PLACE. LOOP DETECTOR WIRE AND LEAD-IN CABLE TO BE REMOVED BY THE CONTRACTOR.
3. CABINET AND CONTROLLER SHALL BE REMOVED BY WISDOT ELECTRICAL PERSONNEL.
4. THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.

TRAFFIC CONTROL SIGNAL
STH 57 & N DEERWOOD DR
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO. S40-1176

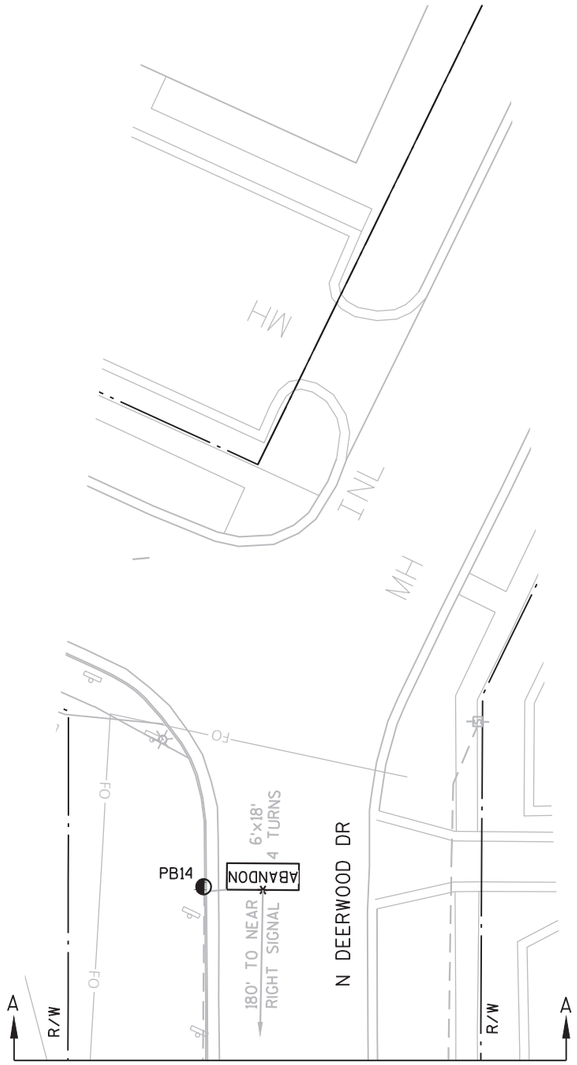
REGION CONTACT: JOYCE MURPHY
DESIGNED BY: HNTB
REVISED BY:

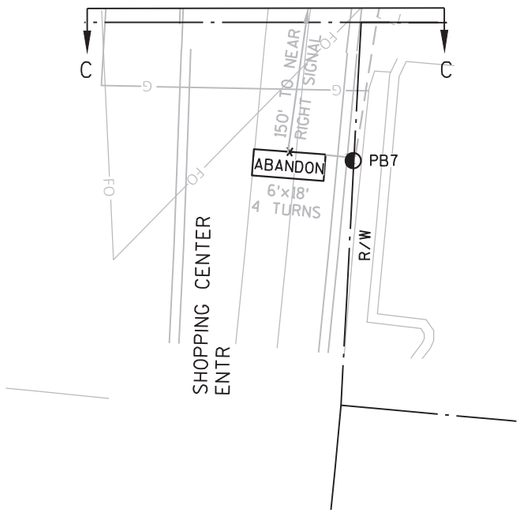
PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 360	E

FILE NAME : I:\64008_STH_57\22700400\SIG\S40-1176\S40-1176_REM.DWG
LAYOUT NAME - S40-1176_rem1

PLOT DATE : 3/30/2021 12:38 PM PLOT BY : ALICIA DOUGHERTY PLOT NAME : PLOT SCALE : 1 IN:40 FT

2





TRAFFIC CONTROL SIGNAL
STH 57 & N DEERWOOD DR
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO. S40-1176

REGION CONTACT: JOYCE MURPHY
DESIGNED BY: HNTB
REVISED BY:

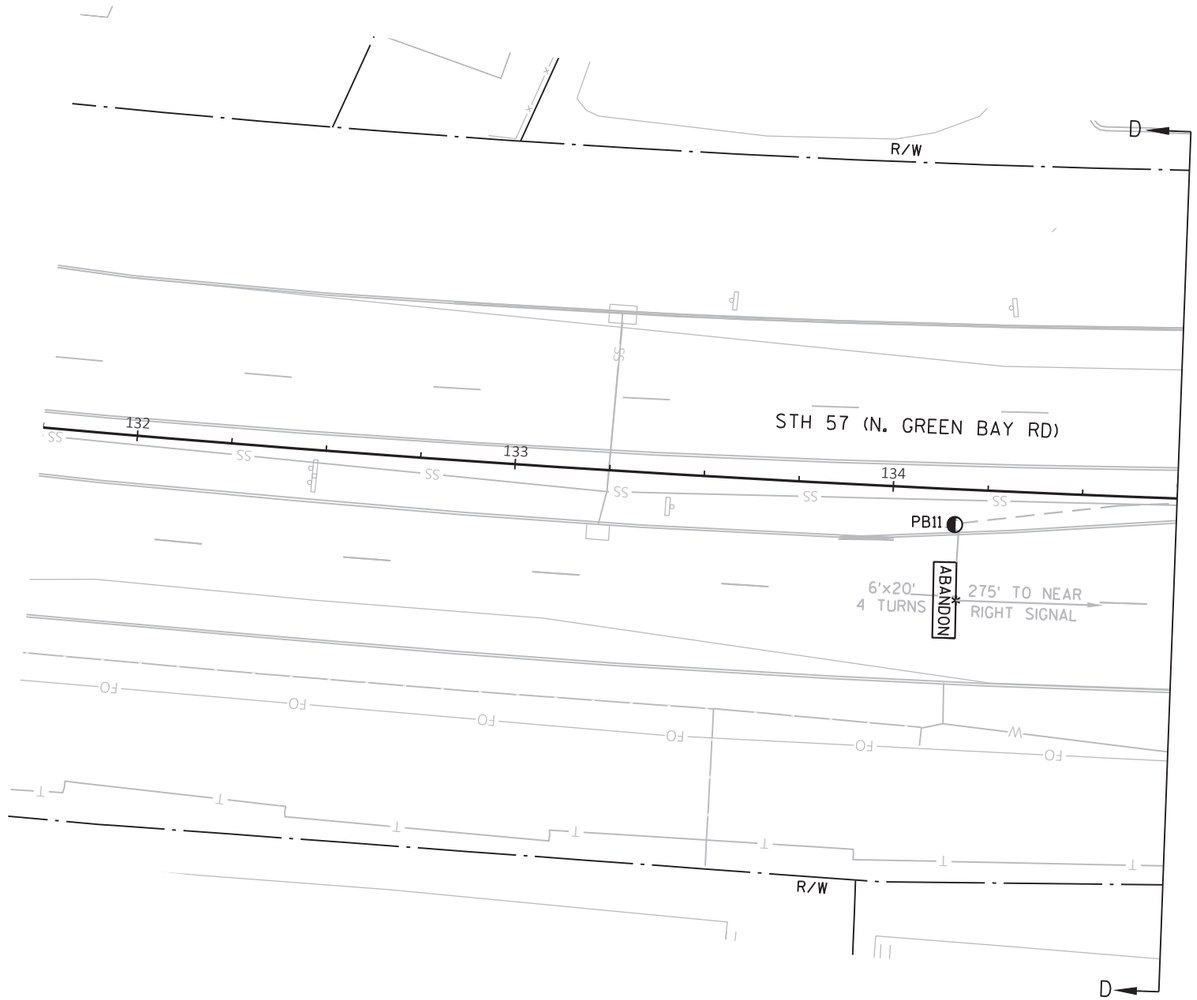
PAGE 2 OF 3

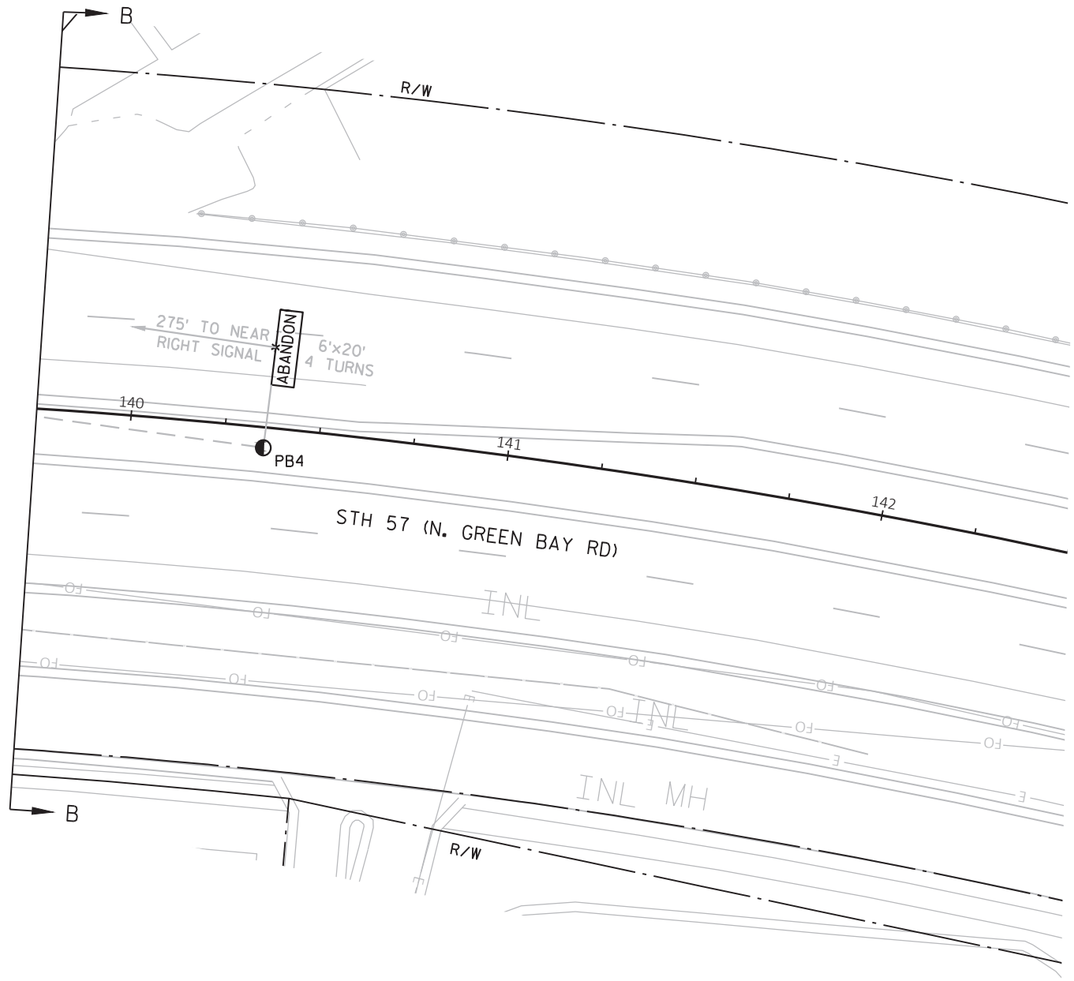
PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 361	E

FILE NAME : I:\64008_STH_57\22700400\SIG\S40-1176\S40-1176_REM.DWG
LAYOUT NAME - S40-1176_rem2

PLOT DATE : 3/30/2021 12:38 PM PLOT BY : ALICIA DOUGHERTY PLOT NAME : PLOT SCALE : ##########

2





TRAFFIC CONTROL SIGNAL
STH 57 & N DEERWOOD DR
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO. S40-1176

REGION CONTACT: JOYCE MURPHY
DESIGNED BY: HNTB
REVISED BY:

PAGE 3 OF 3

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 362	E

FILE NAME : I:\64008_STH_57\22700400\SIG\S40-1176\S40-1176_REM.DWG
LAYOUT NAME - S40-1176_rem3

PLOT DATE : 3/30/2021 12:40 PM PLOT BY : ALICIA DOUGHERTY PLOT NAME : PLOT SCALE : ##########

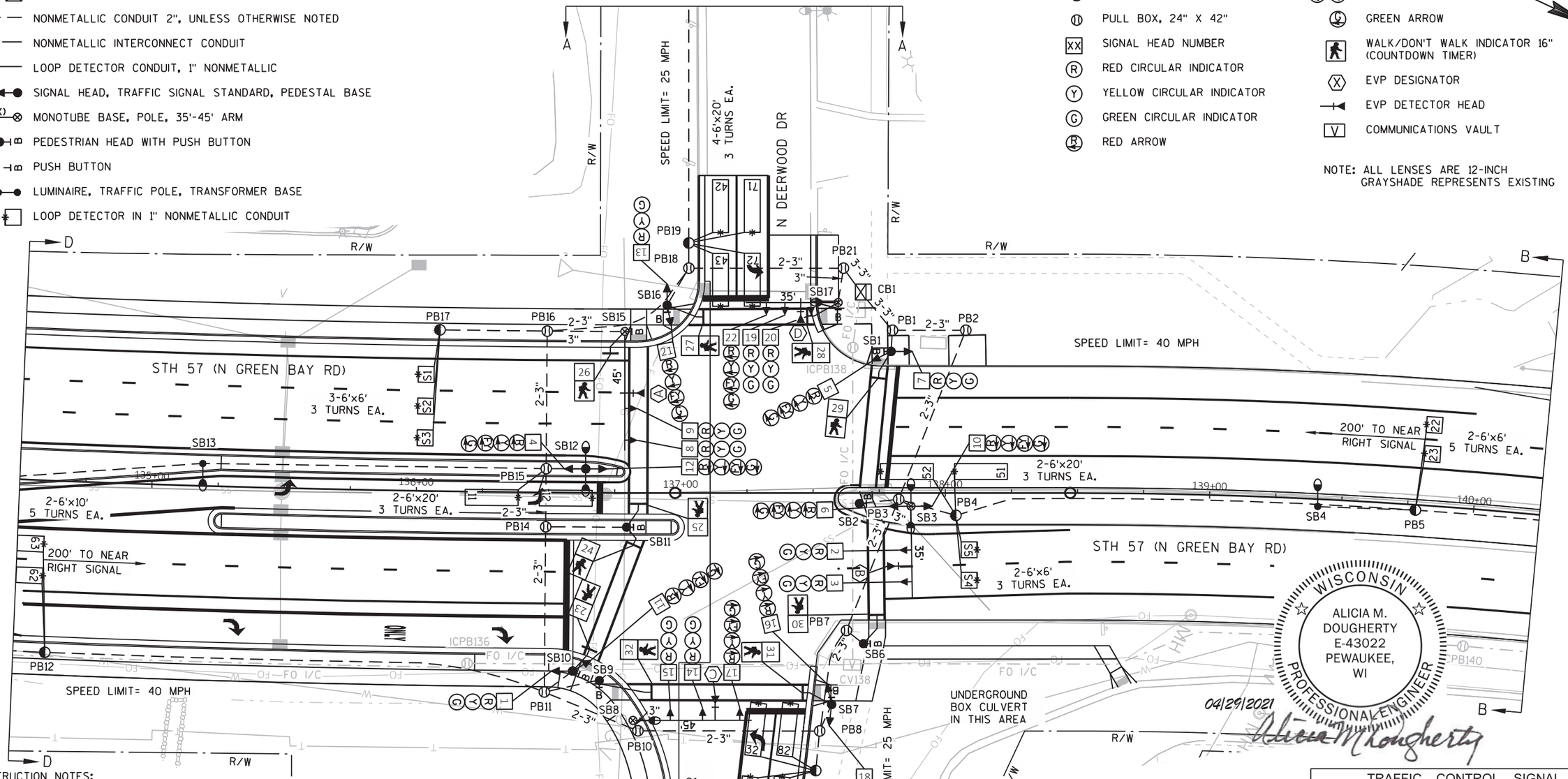
LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC INTERCONNECT CONDUIT
- LOOP DETECTOR CONDUIT, 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 35'-45' ARM
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT

LEGEND CON'T

- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- R RED ARROW
- Y YELLOW ARROW
- G GREEN ARROW
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- X EVP DESIGNATOR
- EVP DETECTOR HEAD
- V COMMUNICATIONS VAULT

NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING



CONSTRUCTION NOTES:

1. * LOCATION IS TO FRONT CENTER OF DETECTOR LOOP.
2. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM. CONTACT THE WISDOT ELECTRICAL FIELD UNIT TO MAKE ARRANGEMENTS. (414) 266-1170.
3. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
4. INSTALL CABINET BASE 6" ABOVE ROADWAY ELEVATION.
5. ALL LUMINAIRES ARE LED-C UNLESS OTHERWISE NOTED.
6. PROPOSED STORM SEWER, FTMS, AND LIGHTING AND SHOWN GRAYSHADED FOR PLAN CLARITY.

MONOTUBE STRUCTURE NUMBERS
SB3 = S40-2066-01
SB8 = S40-2066-02
SB15 = S40-2066-03
SB17 = S40-2066-04

WISCONSIN
ALICIA M. DOUGHERTY
E-43022
PEWAUKEE, WI
PROFESSIONAL ENGINEER

04/29/2021 Alicia M Dougherty

TRAFFIC CONTROL SIGNAL
STH 57 & N DEERWOOD DR
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO. S40-1176
CABINET TYPE: TS2-S
CONTROLLER TYPE: ECONOLITE

WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVAL RECOMMENDED
DATE 4/29/2021 Joyce M Murphy
REGION TRAFFIC ENGINEER

APPROVED
DATE 4/29/2021 Jerry R Diveen
STATE TRAFFIC ENGINEER

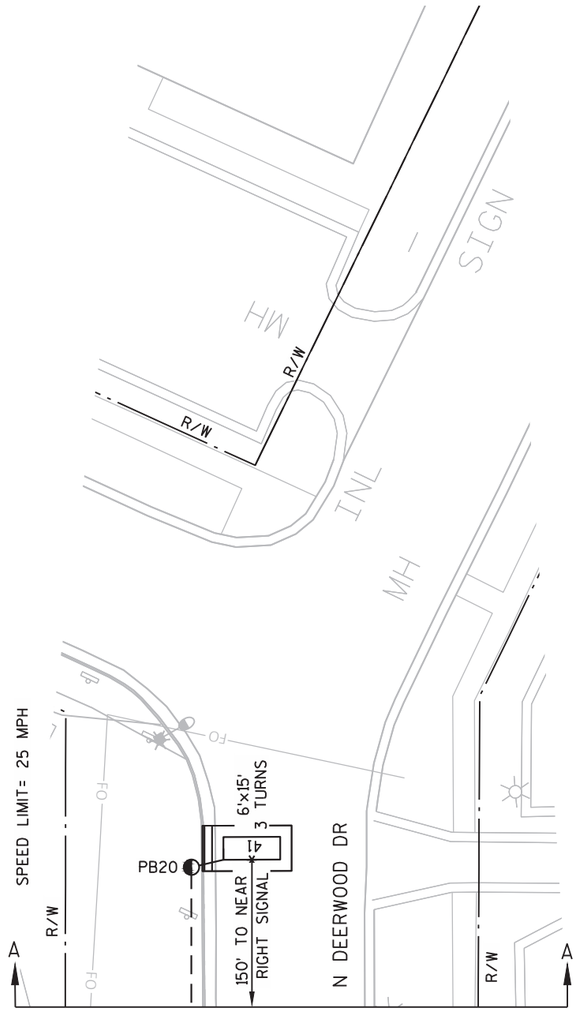
REGION CONTACT: JOYCE MURPHY
DESIGNED BY: HNTB
REVISED BY:

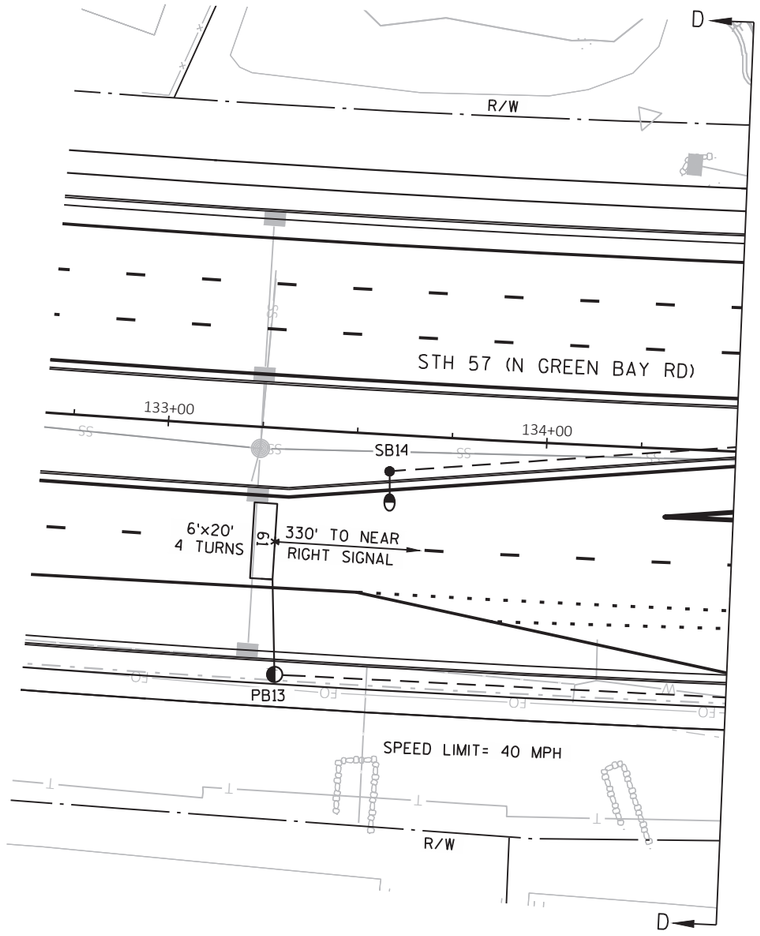
PAGE 1 OF 3

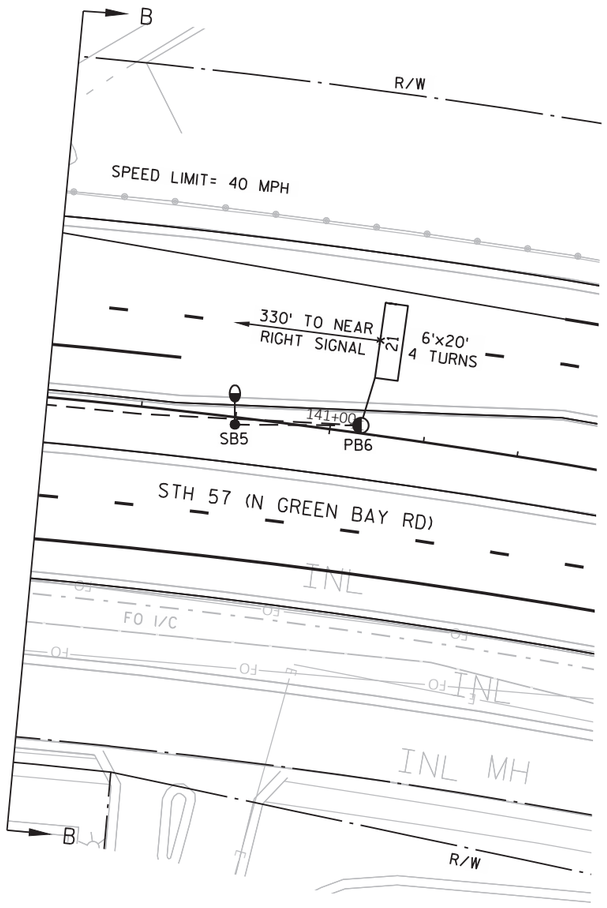
PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 363	E

FILE NAME : I:\64008_STH_57\22700400\SIG\S40-1176\S40-1176.DWG
LAYOUT NAME - S40-1176_1
PLOT DATE : 4/29/2021 9:57 AM
PLOT BY : ALICIA DOUGHERTY
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2







TRAFFIC CONTROL SIGNAL
STH 57 & N DEERWOOD DR
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO. S40-1176

REGION CONTACT: JOYCE MURPHY
DESIGNED BY: HNTB
REVISED BY:

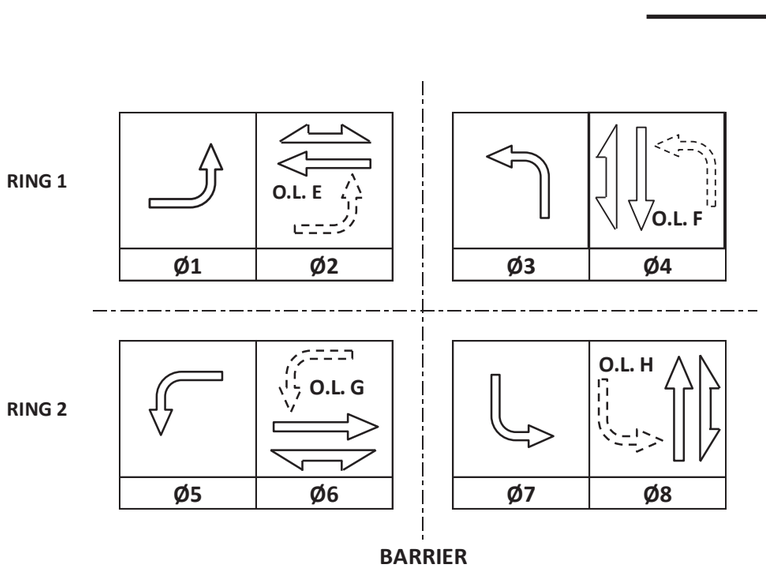
PAGE 2 OF 3

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 364	E

FILE NAME : I:\64008_STH_57\22700400\SIG\S40-1176\S40-1176.DWG
LAYOUT NAME - S40-1176_2

PLOT DATE : 4/27/2021 1:36 PM PLOT BY : ALICIA DOUGHERTY PLOT NAME : PLOT SCALE : 1 IN:40 FT

	HEAD NUMBERS	FLASH
Ø1	4,5,6	R ←
Ø2	7,8,9	R
Ø3	21,22	R ←
Ø4	13,14,15	R
Ø5	10,11,12	R ←
Ø6	1,2,3	R
Ø7	16,17	R ←
Ø8	18,19,20	R
Ø2P	27,28	
Ø4P	23,24,25,26	
Ø6P	31,32	
Ø8P	29,30	
OLE	4,5,6	-
OLF	21,22	-
OLG	10,11,12	-
OLH	16,17	-



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN	X
3		8		X
4		8		X
5		2		X
6	X	2	MIN	X
7		4		X
8		4		X

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT				
PHASE	2+5	6+1	4+7	8+3

AFTER PREEMPTION SEQUENCE 2+5 OR 6+1, CONTROLLER SHALL RETURN TO PHASES 2+6.
AFTER PREEMPTION SEQUENCE 4+7 OR 8+3, CONTROLLER SHALL RETURN TO PHASES 4+8.

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	X
RADIO	
CELL MODEM	

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS- 0010

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	X
TOMAR	
HARDWIRE	
OTHER	
CONFIRMATION LIGHTS	
LIFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
PLAN LOOP DETECTOR*(S)	11	21	23	32	42	51	61	63
CALLED PHASE	1	2	2	3	4	5	6	6
CALL OPTION	X	X	X	X	X	X	X	X
DELAY TIME				X				
EXTENTION OPTION	X	X	X	X	X	X	X	X
EXTEND TIME								
USE ADDED INITIAL		X	X				X	X
CROSS SWITCH PHASE	2			4		6		

DETECTOR INPUT	19	17	23	21	27	25	31	29
PLAN LOOP DETECTOR*(S)	72	82	S2	S4				
CALLED PHASE	7	8						
CALL OPTION	X	X						
DELAY TIME	X							
EXTENTION OPTION	X	X						
EXTEND TIME								
USE ADDED INITIAL								
CROSS SWITCH PHASE	8							

DETECTOR INPUT	4	2	8	6	12	10	16	14
PLAN LOOP DETECTOR*(S)	12	22	31	41	43	52	62	71
CALLED PHASE	1	2	3	4	4	5	6	7
CALL OPTION	X	X	X		X	X	X	X
DELAY TIME			X					X
EXTENTION OPTION	X	X	X	X	X	X	X	X
EXTEND TIME				X				
USE ADDED INITIAL		X					X	
CROSS SWITCH PHASE	2		4			6		8

DETECTOR INPUT	20	18	24	22	28	26	32	30
PLAN LOOP DETECTOR*(S)	81	S1	S3	S5				
CALLED PHASE	8							
CALL OPTION	X							
DELAY TIME								
EXTENTION OPTION	X							
EXTEND TIME								
USE ADDED INITIAL								
CROSS SWITCH PHASE								

STH 57 & N DEERWOOD DR
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY
SIGNAL NO: S40-1176 CABINET TYPE: TS2-S
CONTROLLER TYPE: ECONOLITE
DATE: 04/2021 PAGE NUMBER: 3 OF 3

2

PROJECT ID:	2270-04-70
INTERSECTION:	STH 57 & N DEERWOOD DR

SIGNAL WIRE COLOR CODING	BLK-BLACK	RED-RED	GRN-GREEN
	WHT-WHITE	BLU-BLUE	ORG-ORANGE

CB1 TO	NO. OF CONDUCTORS	HEAD NO.	RED	YELLOW	GREEN	<RED>	<YELLOW>	<GREEN>	FLASHING <YELLOW>	D/WALK	WALK	PED BUTTON	OTHER
SB1	12	5				RED	ORG	GRN	BLK/WHT				
		7	RED/BLK	ORG/BLK	GRN/BLK								
		29								BLK	BLU		
		B										WHT/BLK	
SB2	5	B										WHT/BLK	
SB3	15	2	RED	ORG	GRN								
		3	RED	ORG	GRN								
		6				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
		10				RED/WHT	BLU/WHT	GRN/WHT	BLK				
SB6	7	30								BLK	BLU		
		B										WHT/BLK	
SB7	12	16				RED	ORG	GRN	BLK/WHT				
		18	RED/BLK	ORG/BLK	GRN/BLK								
		31								BLK	BLU		
		B										WHT/BLK	
SB8	12	14	RED	ORG	GRN								
		15	RED	ORG	GRN								
		17				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
SB9	7	32								BLK	BLU		
		B										WHT/BLK	
SB10	12	1	RED	ORG	GRN								
		11				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
		23								BLK	BLU		
		B										WHT/BLK	
SB11	7	24								BLK	BLU		
		25								BLK	BLU		
		B										WHT/BLK	
SB12	12	4				RED	ORG	GRN	BLK				
		12				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
SB15	12	8	RED	ORG	GRN								
		9	RED	ORG	GRN								
		26								BLK	BLU		
		B										WHT/BLK	
SB16	12	13	RED	ORG	GRN								
		21				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
		27								BLK	BLU		
		B										WHT/BLK	
SB17	12	19	RED	ORG	GRN								
		20	RED	ORG	GRN								
		22				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
		28								BLK	BLU		
		B										WHT/BLK	

NOTES: USE WHITE CONDUCTOR IN THE SIGNAL CABLE AS THE GROUNDED CONDUCTOR FOR ALL TRAFFIC SIGNAL INDICATIONS.
ENSURE THE GROUNDED CONDUCTOR IN THE FEEDER CABLE AND THE POLE CABLES ARE BOTH 18" LONGER THAN THE UNGROUNDED CONDUCTORS.
AT THE SIGNAL BASES, CONNECT ONE TERMINAL FROM THE PEDESTRIAN PUSH BUTTONS TO THE COLOR INDICATED IN THE CHART. CONNECT THE OTHER TERMINAL TO THE GROUNDED CONDUCTOR.

WISCONSIN
ALICIA M. DOUGHERTY
E-43022
PEWAUKEE, WI
PROFESSIONAL ENGINEER

04/28/2021

Alicia M Dougherty

(CONTINUED ON NEXT SHEET)

FILE NAME : I:\64008_STH_57\22700400\SIG\S40-1176\eng\024050_sp_cr.ppt PLOT DATE : 3/18/2021 10:18:37 AM PLOT BY : HNTB PLOT NAME : 024050_sp_cr<#> PLOT SCALE : 1:1

2

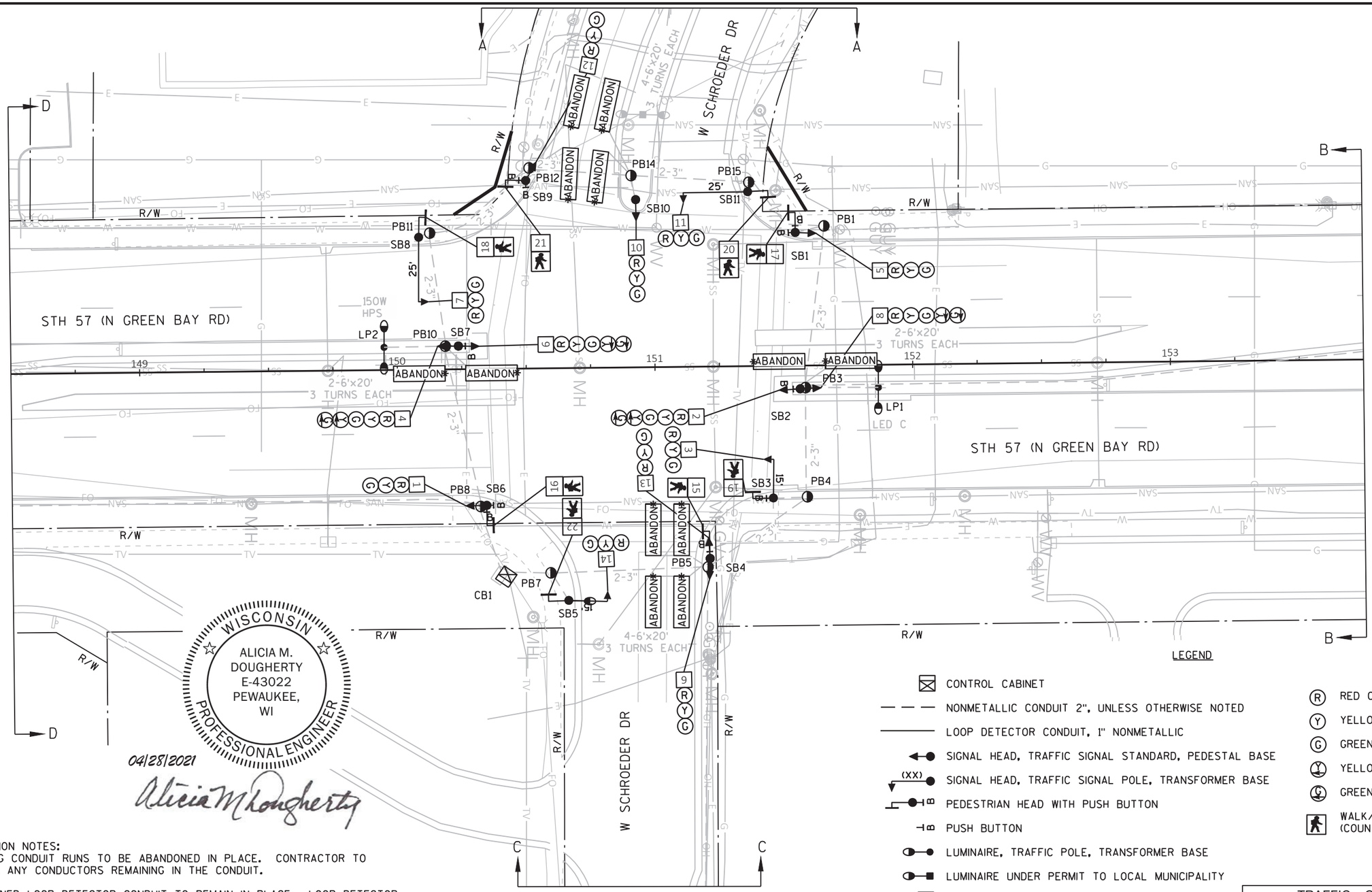
(CONTINUED)

EQUIPMENT GROUNDING CONDUCTOR 10 AWG GRN XLP	
FROM	TO
CB1	SB1
SB1	SB2
SB2	SB3
SB3	SB4
SB4	SB5
SB5	SB6
SB6	SB7
SB7	SB8
SB8	SB9
SB9	SB10
SB10	SB11
SB11	SB12
SB12	SB15
SB15	SB16
SB16	SB17
SB17	CB1

LIGHTING UF 10 AWG W/ GROUND	
FROM	TO
CB1	SB3
SB3	SB4
SB4	SB5
SB3	SB8
CB1	SB17
SB17	SB12
SB12	SB13
SB13	SB14

PULL BOX BONDING JUMPER 10 AWG GRN XLP	
FROM	TO
PB1	SB1
PB2	SB1
PB3	SB3
PB4	SB3
PB5	SB4
PB6	SB5
PB7	SB6
PB8	SB7
PB10	SB8
PB11	SB10
PB14	SB11
PB15	SB12
PB16	SB15
PB18	SB16
PB21	CB1

EMERGENCY VEHICLE PREEMPTION	
FROM	TO
CB1	SB3 (HEAD B)
CB1	SB8 (HEAD C)
CB1	SB15 (HEAD A)
CB1	SB17 (HEAD D)



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PROFESSIONAL ENGINEER

04/28/2021

Alicia M Dougherty

CONSTRUCTION NOTES:

1. EXISTING CONDUIT RUNS TO BE ABANDONED IN PLACE. CONTRACTOR TO REMOVE ANY CONDUCTORS REMAINING IN THE CONDUIT.
2. ABANDONED LOOP DETECTOR CONDUIT TO REMAIN IN PLACE. LOOP DETECTOR WIRE AND LEAD-IN CABLE TO BE REMOVED BY THE CONTRACTOR.
3. CABINET AND CONTROLLER SHALL BE REMOVED BY WISDOT ELECTRICAL PERSONNEL.
4. THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT, 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LUMINAIRE UNDER PERMIT TO LOCAL MUNICIPALITY
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- PULL BOX, 24" X 36"
- XX SIGNAL HEAD NUMBER

NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING TO REMAIN. BOLD REPRESENTS ITEMS TO BE REMOVED.

- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- YELLOW ARROW
- GREEN ARROW
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)

TRAFFIC CONTROL SIGNAL
STH 57 & W SCHROEDER DR
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO. S40-1227

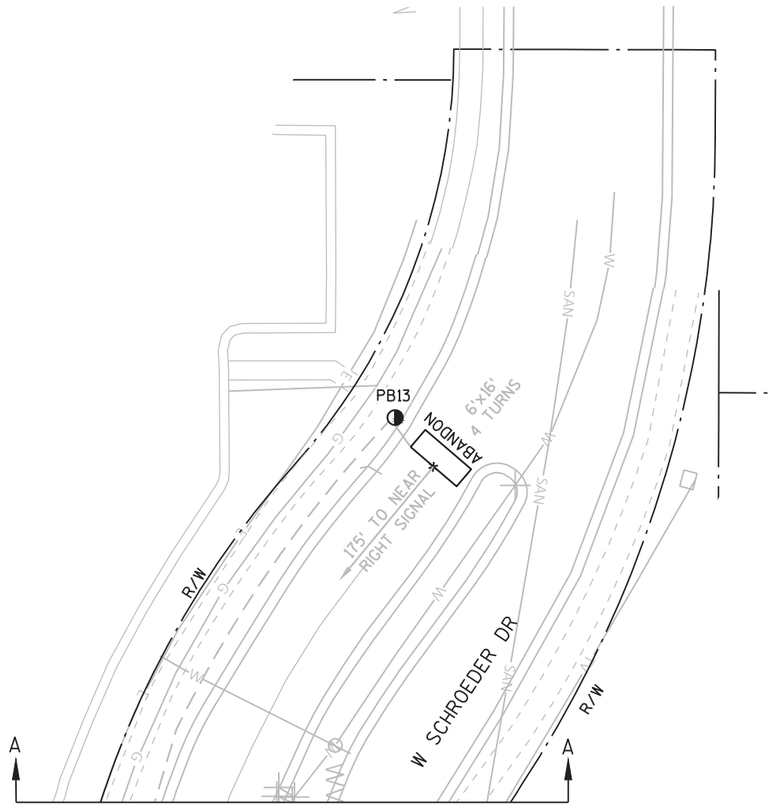
REGION CONTACT: JOYCE MURPHY
DESIGNED BY: HNTB
REVISED BY:

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 368	E

FILE NAME : I:\64008_STH_57\22700400\SIG\S40-1227\S40-1227_REM.DWG
LAYOUT NAME - S40-1227_rem1
PLOT DATE : 3/30/2021 1:35 PM
PLOT BY : ALICIA DOUGHERTY
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

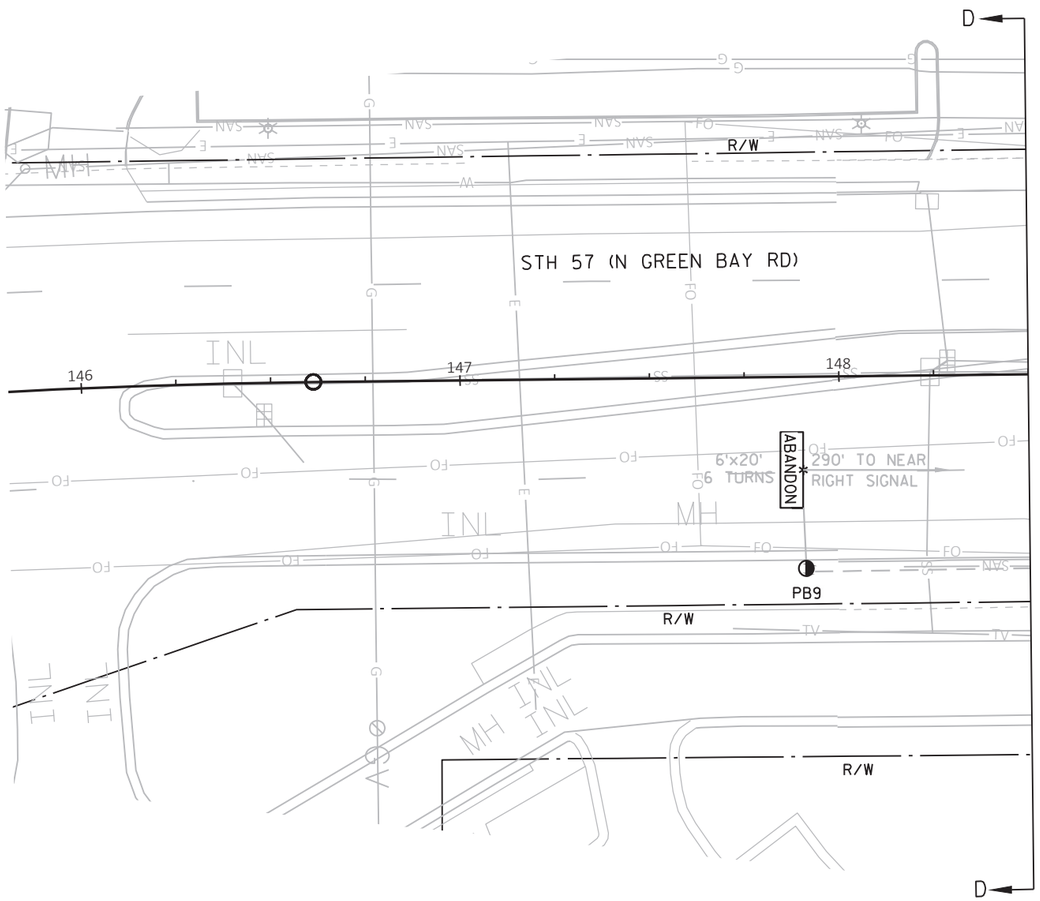
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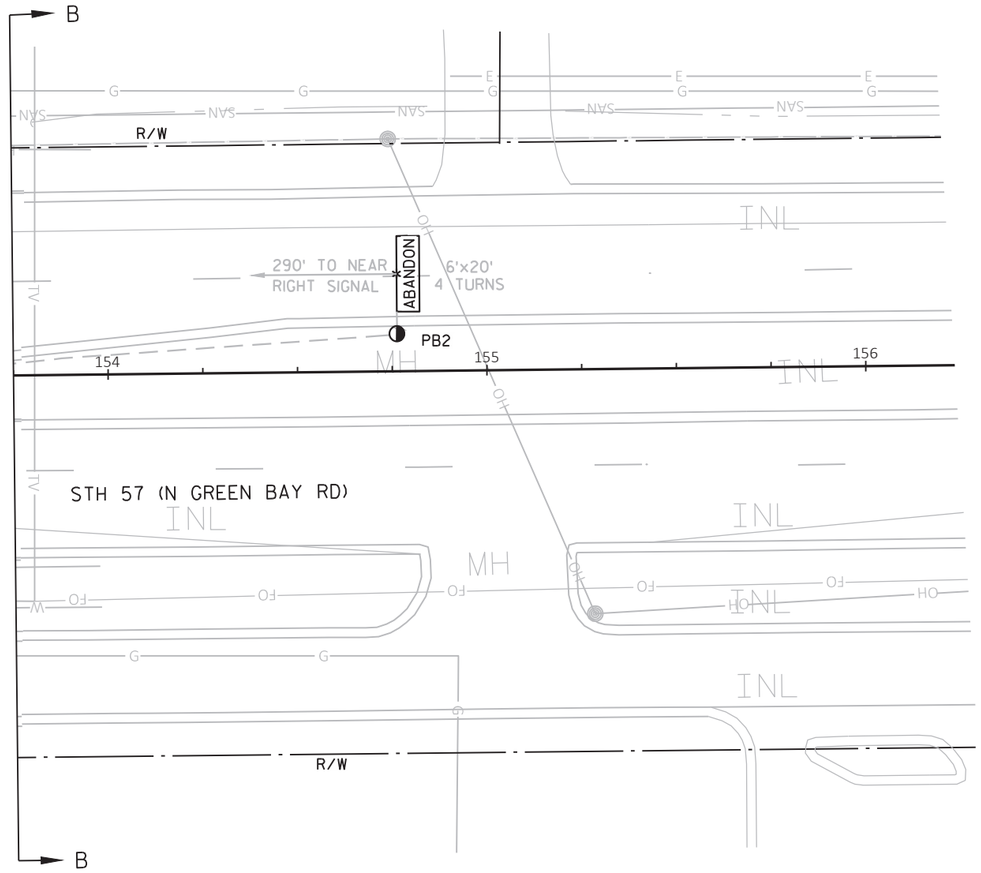
N


PB13
6'x16'
4 TURNS
ABANDON
175' TO NEAR
RIGHT SIGNAL
R/W
W SCHROEDER DR
R/W
A
A
S
S
S

2

N





TRAFFIC CONTROL SIGNAL
STH 57 & W SCHROEDER DR
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO. S40-1227

REGION CONTACT: JOYCE MURPHY
DESIGNED BY: HNTB
REVISED BY:

PAGE 3 OF 3

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 370	E

FILE NAME : I:\64008_STH_57\22700400\SIG\S40-1227\S40-1227_REM.DWG
LAYOUT NAME - S40-1227_rem3

PLOT DATE : 3/30/2021 1:35 PM PLOT BY : ALICIA DOUGHERTY PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

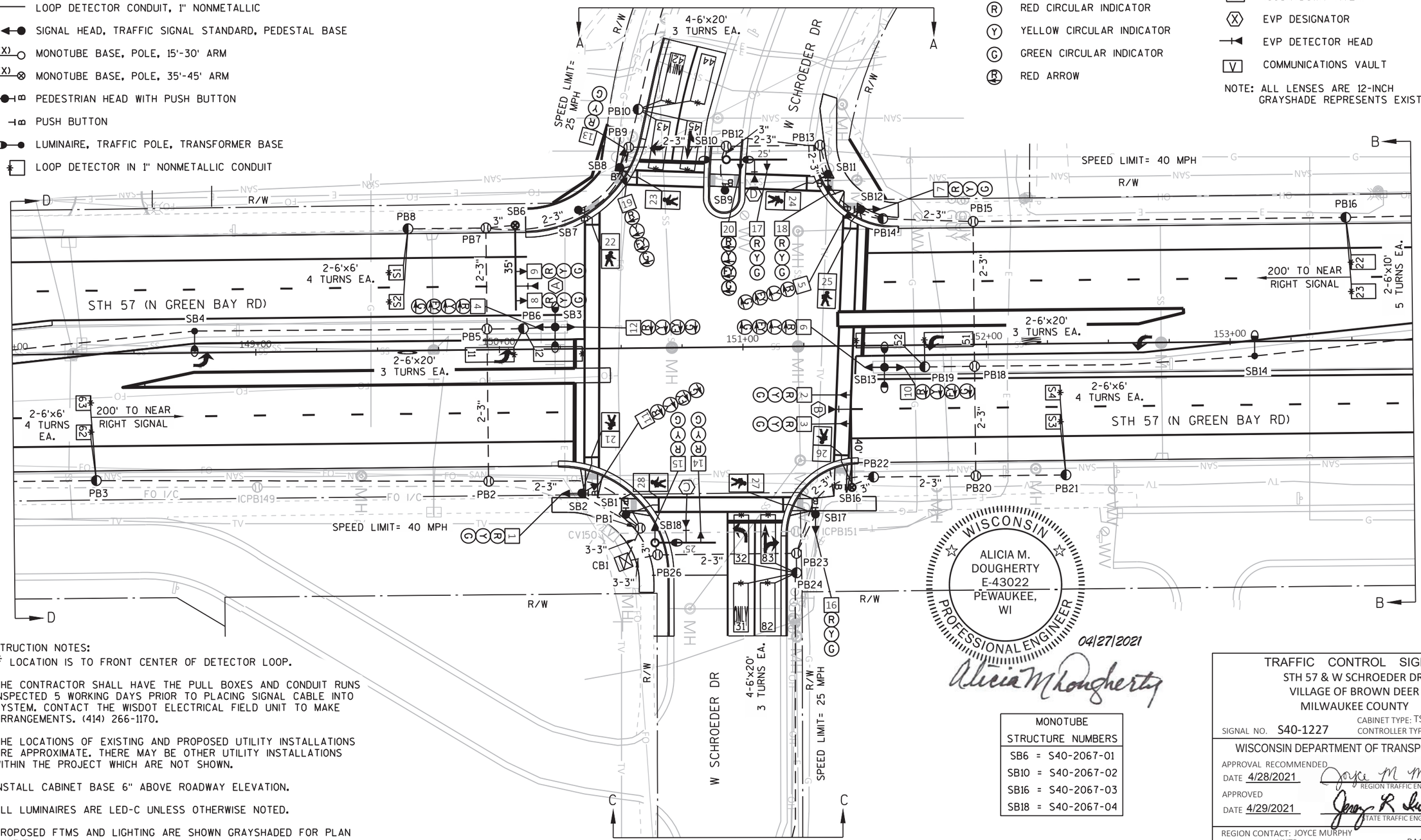
LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC INTERCONNECT CONDUIT
- LOOP DETECTOR CONDUIT, 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 15'-30' ARM
- (XX) MONOTUBE BASE, POLE, 35'-45' ARM
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT

LEGEND CON'T

- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- SIGNAL HEAD NUMBER
- RED CIRCULAR INDICATOR
- YELLOW CIRCULAR INDICATOR
- GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- EVP DESIGNATOR
- EVP DETECTOR HEAD
- COMMUNICATIONS VAULT

NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING



CONSTRUCTION NOTES:

1. * LOCATION IS TO FRONT CENTER OF DETECTOR LOOP.
2. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM. CONTACT THE WISDOT ELECTRICAL FIELD UNIT TO MAKE ARRANGEMENTS. (414) 266-1170.
3. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
4. INSTALL CABINET BASE 6" ABOVE ROADWAY ELEVATION.
5. ALL LUMINAIRES ARE LED-C UNLESS OTHERWISE NOTED.
6. PROPOSED FTMS AND LIGHTING ARE SHOWN GRAYSHADED FOR PLAN CLARITY.

MONOTUBE STRUCTURE NUMBERS	
SB6	= S40-2067-01
SB10	= S40-2067-02
SB16	= S40-2067-03
SB18	= S40-2067-04

WISCONSIN
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PEWAUKEE, WI
PROFESSIONAL ENGINEER

04/27/2021

Alicia M Dougherty

TRAFFIC CONTROL SIGNAL
STH 57 & W SCHROEDER DR
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO. S40-1227
CABINET TYPE: TS2-S
CONTROLLER TYPE: ECONOLITE

WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVAL RECOMMENDED
DATE 4/28/2021 — Joyce M Murphy — REGION TRAFFIC ENGINEER

APPROVED
DATE 4/29/2021 — Jerry R Ewen — STATE TRAFFIC ENGINEER

REGION CONTACT: JOYCE MURPHY
DESIGNED BY: HNTB
REVISED BY:

PAGE 1 OF 4

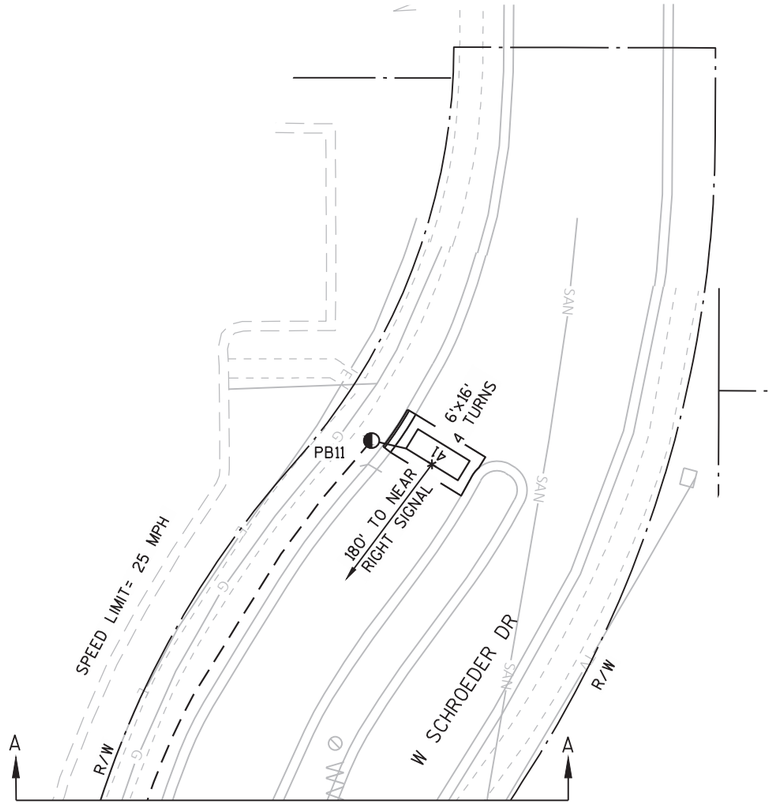
PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 371	E

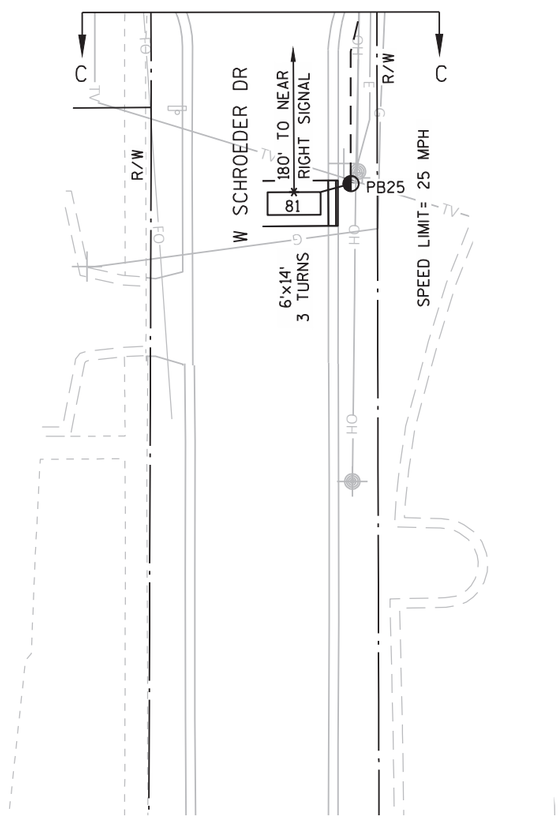
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LAYOUT NAME - S40-1227_1
PLOT DATE : 4/27/2021 1:38 PM
PLOT BY : ALICIA DOUGHERTY
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

N





TRAFFIC CONTROL SIGNAL
STH 57 & W SCHROEDER DR
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO. S40-1227

REGION CONTACT: JOYCE MURPHY
DESIGNED BY: HNTB
REVISED BY:

PAGE 2 OF 4

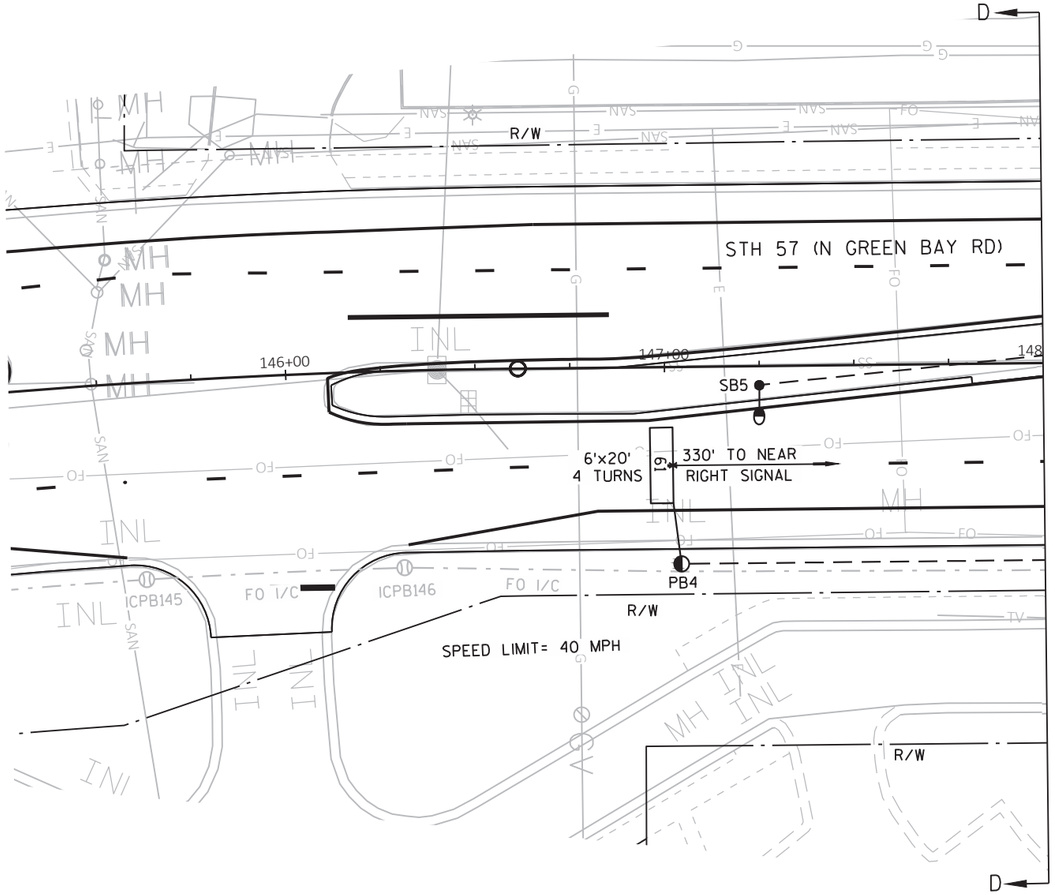
PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 372	E

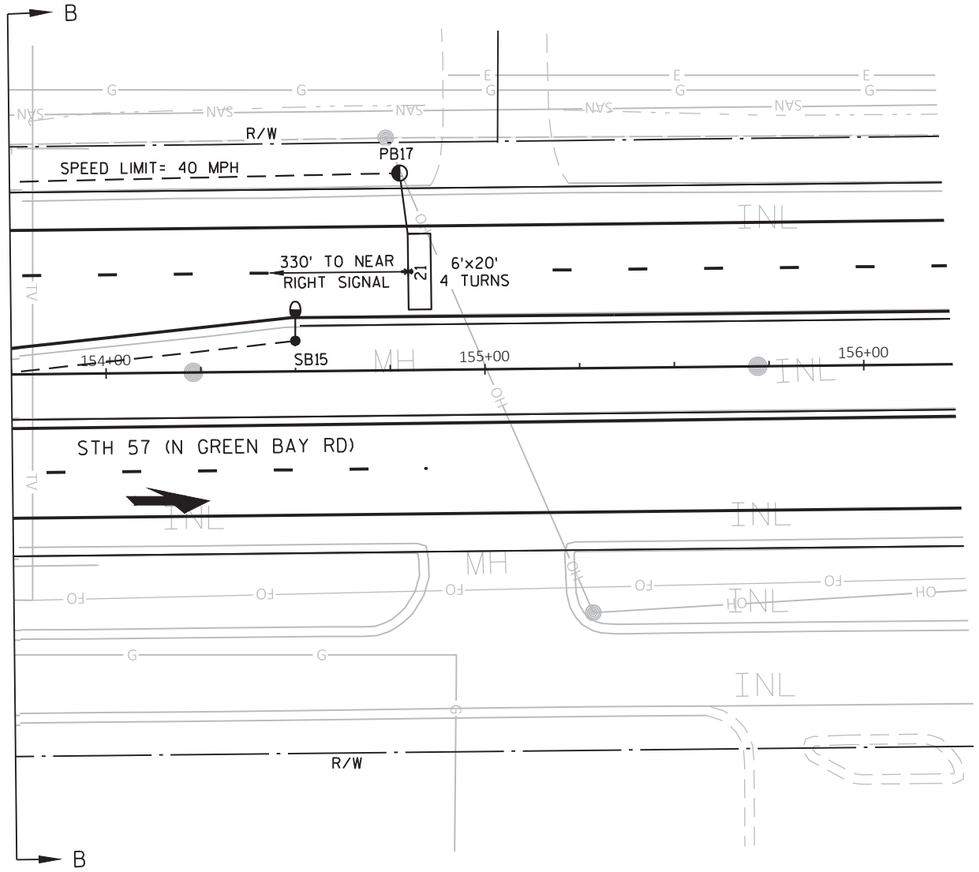
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LAYOUT NAME - S40-1227_2

PLOT DATE : 4/27/2021 1:38 PM PLOT BY : ALICIA DOUGHERTY PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N





TRAFFIC CONTROL SIGNAL
STH 57 & W SCHROEDER DR
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

SIGNAL NO. S40-1227

REGION CONTACT: JOYCE MURPHY
DESIGNED BY: HNTB
REVISED BY:

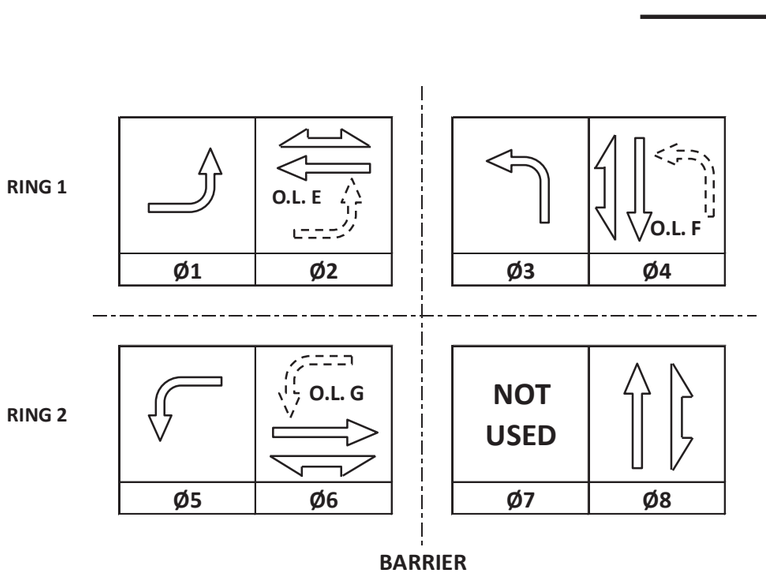
PAGE 3 OF 4

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 373	E

FILE NAME : I:\64008_STH_57\22700400\SIG\S40-1227\S40-1227.DWG
LAYOUT NAME - S40-1227_3

PLOT DATE : 4/27/2021 1:39 PM PLOT BY : ALICIA DOUGHERTY PLOT NAME : PLOT SCALE : 1 IN:40 FT

	HEAD NUMBERS	FLASH
Ø1	4,5,6	R ←
Ø2	7,8,9	R
Ø3	19,20	R ←
Ø4	13,14,15	R
Ø5	10,11,12	R ←
Ø6	1,2,3	R
Ø7		
Ø8	16,17,18	R
Ø2P	23,24	
Ø4P	21,22	
Ø6P	27,28	
Ø8P	25,26	
OLE	4,5,6	-
OLF	19,20	-
OLG	10,11,12	-
OLH		



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN	X
3		8		X
4		8		X
5		2		X
6	X	2	MIN	X
7				
8		4		X

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT	←	→	↓ ↑	↓ ↑
PHASE	2+5	6+1	4+8	8+4

AFTER PREEMPTION SEQUENCE 2+5 OR 6+1, CONTROLLER SHALL RETURN TO PHASES 2+6.
AFTER PREEMPTION SEQUENCE 4+8 OR 8+4, CONTROLLER SHALL RETURN TO PHASES 4+8.

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	X
RADIO	
CELL MODEM	

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS- 0010

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	X
TOMAR	
HARDWIRE	
OTHER	
CONFIRMATION LIGHTS	
LIFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13	19	17	23	21	27	25	31	29
PLAN LOOP DETECTOR*(S)	11	21	23	32	42	44	51	61	63	82	S1	S3				
CALLED PHASE	1	2	2	3	4	4	5	6	6	8						
CALL OPTION	X	X	X	X	X	X	X	X	X	X						
DELAY TIME				X	X					X						
EXTENTION OPTION	X	X	X	X	X	X	X	X	X	X						
EXTEND TIME																
USE ADDED INITIAL		X	X					X	X							
CROSS SWITCH PHASE	2			4			6									

DETECTOR INPUT	4	2	8	6	12	10	16	14	20	18	24	22	28	26	32	30
PLAN LOOP DETECTOR*(S)	12	22	31	41	43	45	52	62	81	83	S2	S4				
CALLED PHASE	1	2	3	4	4	4	5	6	4	8						
CALL OPTION	X	X	X	X	X	X	X	X	X	X						
DELAY TIME			X		X					X						
EXTENTION OPTION	X	X	X	X	X	X	X	X	X	X						
EXTEND TIME				X					X							
USE ADDED INITIAL		X						X								
CROSS SWITCH PHASE	2		4				6									

STH 57 & W SCHROEDER DR	
VILLAGE OF BROWN DEER	
MILWAUKEE COUNTY	
SIGNAL NO: S40-1227	CABINET TYPE: TS2-S
	CONTROLLER TYPE: ECONOLITE
DATE: 04/2021	PAGE NUMBER: 4 OF 4

2

PROJECT ID:	2270-04-70
INTERSECTION:	STH 57 & W SCHROEDER DR

SIGNAL WIRE COLOR CODING	BLK-BLACK WHT-WHITE	RED-RED BLU-BLUE	GRN-GREEN ORG-ORANGE

CB1 TO	NO. OF CONDUCTORS	HEAD NO.	RED	YELLOW	GREEN	<RED>	<YELLOW>	<GREEN>	FLASHING <YELLOW>	D/WALK	WALK	PED BUTTON	OTHER
SB1	7	28								BLK	BLU		
		B										WHT/BLK	
SB2	12	1	RED	ORG	GRN								
		11				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
		21								BLK	BLU		
		B										WHT/BLK	
SB3	12	4				RED	ORG	GRN	BLK				
		12				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
SB6	7	8	RED	ORG	GRN								
		9	RED	ORG	GRN								
SB7	7	22								BLK	BLU		
		B										WHT/BLK	
SB8	12	13	RED	ORG	GRN								
		19				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
		23								BLK	BLU		
		B										WHT/BLK	
SB9	7	B										WHT/BLK	
SB10	12	17	RED	ORG	GRN								
		20				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
SB11	12	18	RED	ORG	GRN								
		24								BLK	BLU		
		B										WHT/BLK	
SB12	12	5				RED	ORG	GRN	BLK/WHT				
		7	RED/BLK	ORG/BLK	GRN/BLK								
		25								BLK	BLU		
		B										WHT/BLK	
SB13	12	6				RED	ORG	GRN	BLK				
		10				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
SB16	12	2	RED	ORG	GRN								
		3	RED	ORG	GRN								
		26								BLK	BLU		
		B										WHT/BLK	
SB17	12	16	RED	ORG	GRN								
		27								BLK	BLU		
		B										WHT/BLK	
SB18	7	14	RED	ORG	GRN								
		15	RED	ORG	GRN								

NOTES: USE WHITE CONDUCTOR IN THE SIGNAL CABLE AS THE GROUNDED CONDUCTOR FOR ALL TRAFFIC SIGNAL INDICATIONS.
ENSURE THE GROUNDED CONDUCTOR IN THE FEEDER CABLE AND THE POLE CABLES ARE BOTH 18" LONGER THAN THE UNGROUNDED CONDUCTORS.
AT THE SIGNAL BASES, CONNECT ONE TERMINAL FROM THE PEDESTRIAN PUSH BUTTONS TO THE COLOR INDICATED IN THE CHART. CONNECT THE OTHER TERMINAL TO THE GROUNDED CONDUCTOR.

WISCONSIN
ALICIA M. DOUGHERTY
E-43022
PEWAUKEE, WI
PROFESSIONAL ENGINEER

04/28/2021

Alicia M Dougherty

(CONTINUED ON NEXT SHEET)

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE	CABLE ROUTING – STH 57 & W SCHROEDER DR	SHEET:	E

FILE NAME : I:\64008_STH_57\22700400\SIG\S40-1227\eng\024060_sp_cr.ppt PLOT DATE : 3/24/2021 1:41:15 PM PLOT BY : HNTB PLOT NAME : 024060_sp_cr‹#› PLOT SCALE : 1:1

2

(CONTINUED)

EQUIPMENT GROUNDING CONDUCTOR 10 AWG GRN XLP	
FROM	TO
CB1	SB1
SB1	SB2
SB2	SB3
SB3	SB6
SB6	SB7
SB7	SB8
SB8	SB9
SB9	SB10
SB10	SB11
SB11	SB12
SB12	SB13
SB13	SB16
SB16	SB17
SB17	SB18
SB18	CB1

LIGHTING UF 10 AWG W/ GROUND	
FROM	TO
CB1	SB3
SB3	SB4
SB4	SB5
SB3	SB10
CB1	SB18
SB18	SB13
SB13	SB14
SB14	SB15

PULL BOX BONDING JUMPER 10 AWG GRN XLP	
FROM	TO
PB1	SB1
PB2	SB1
PB5	SB3
PB6	SB3
PB7	SB6
PB9	SB8
PB12	SB10
PB13	SB11
PB14	SB12
PB15	SB12
PB18	SB13
PB19	SB13
PB20	SB16
PB22	SB16
PB23	SB17
PB26	SB18

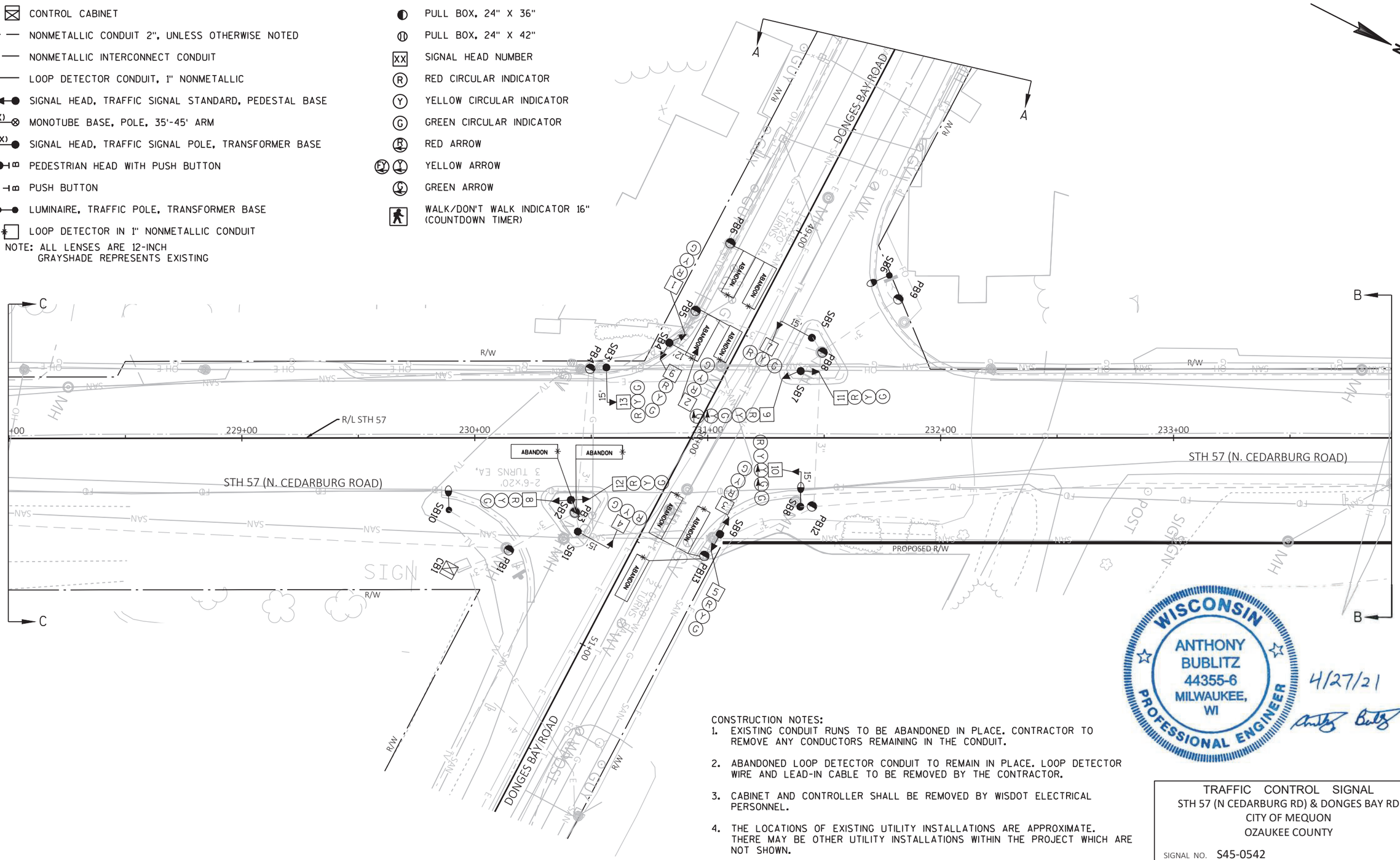
EMERGENCY VEHICLE PREEMPTION	
FROM	TO
CB1	SB6 (HEAD A)
CB1	SB10 (HEAD D)
CB1	SB16 (HEAD B)
CB1	SB18 (HEAD C)

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC INTERCONNECT CONDUIT
- LOOP DETECTOR CONDUIT, 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 35'-45' ARM
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)



CONSTRUCTION NOTES:

1. EXISTING CONDUIT RUNS TO BE ABANDONED IN PLACE. CONTRACTOR TO REMOVE ANY CONDUCTORS REMAINING IN THE CONDUIT.
2. ABANDONED LOOP DETECTOR CONDUIT TO REMAIN IN PLACE. LOOP DETECTOR WIRE AND LEAD-IN CABLE TO BE REMOVED BY THE CONTRACTOR.
3. CABINET AND CONTROLLER SHALL BE REMOVED BY WISDOT ELECTRICAL PERSONNEL.
4. THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
5. GRAYSHADE REPRESENTS EXISTING. BOLD REPRESENTS ITEMS TO BE REMOVED.

WISCONSIN
ANTHONY BUBLITZ
44355-6
MILWAUKEE, WI
PROFESSIONAL ENGINEER

4/27/21

TRAFFIC CONTROL SIGNAL
STH 57 (N CEDARBURG RD) & DONGES BAY RD
CITY OF MEQUON
OZAUKEE COUNTY

SIGNAL NO. S45-0542

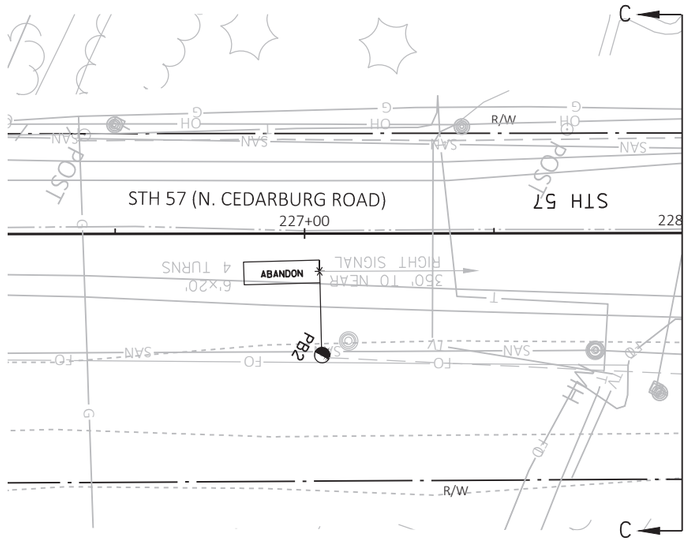
REGION CONTACT: JOYCE MURPHY
DESIGNED BY: LAKESIDE ENGINEERS
REVISED BY:

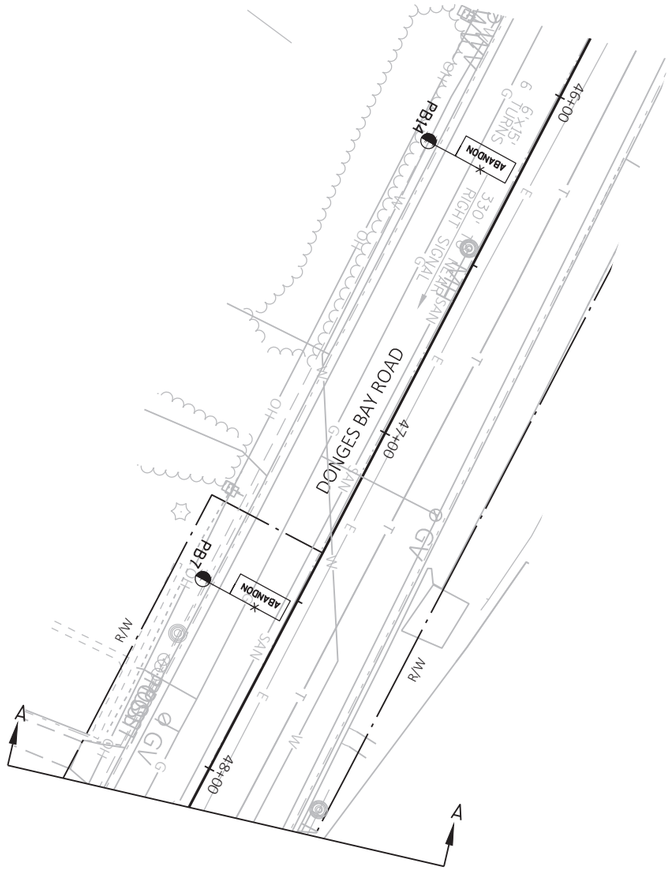
PAGE 1 OF 2

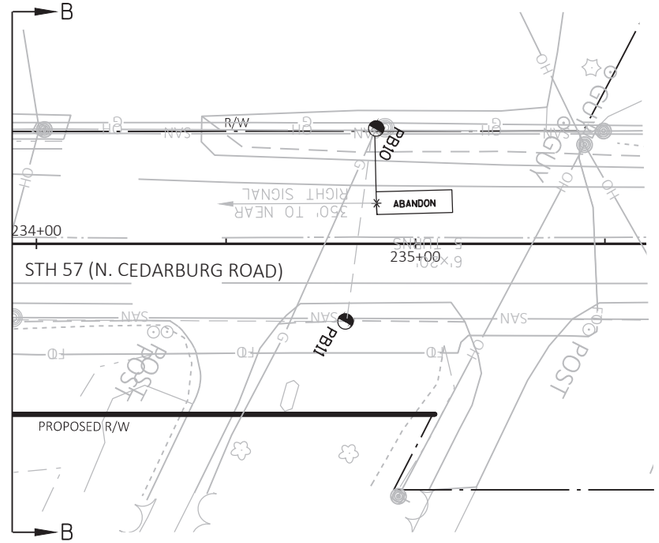
PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 377	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\024001_SR.DWG
LAYOUT NAME - 024001
PLOT DATE : 3/22/2021 11:34 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

2







TRAFFIC CONTROL SIGNAL
STH 57 (N CEDARBURG RD) & DONGES BAY RD
CITY OF MEQUON
OZAUKEE COUNTY

SIGNAL NO. S45-0542

REGION CONTACT: JOYCE MURPHY
DESIGNED BY: LAKESIDE ENGINEERS
REVISED BY:

PAGE 2 OF 2

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 378	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\024001_SR.DWG
LAYOUT NAME - 024002

PLOT DATE : 3/22/2021 11:35 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

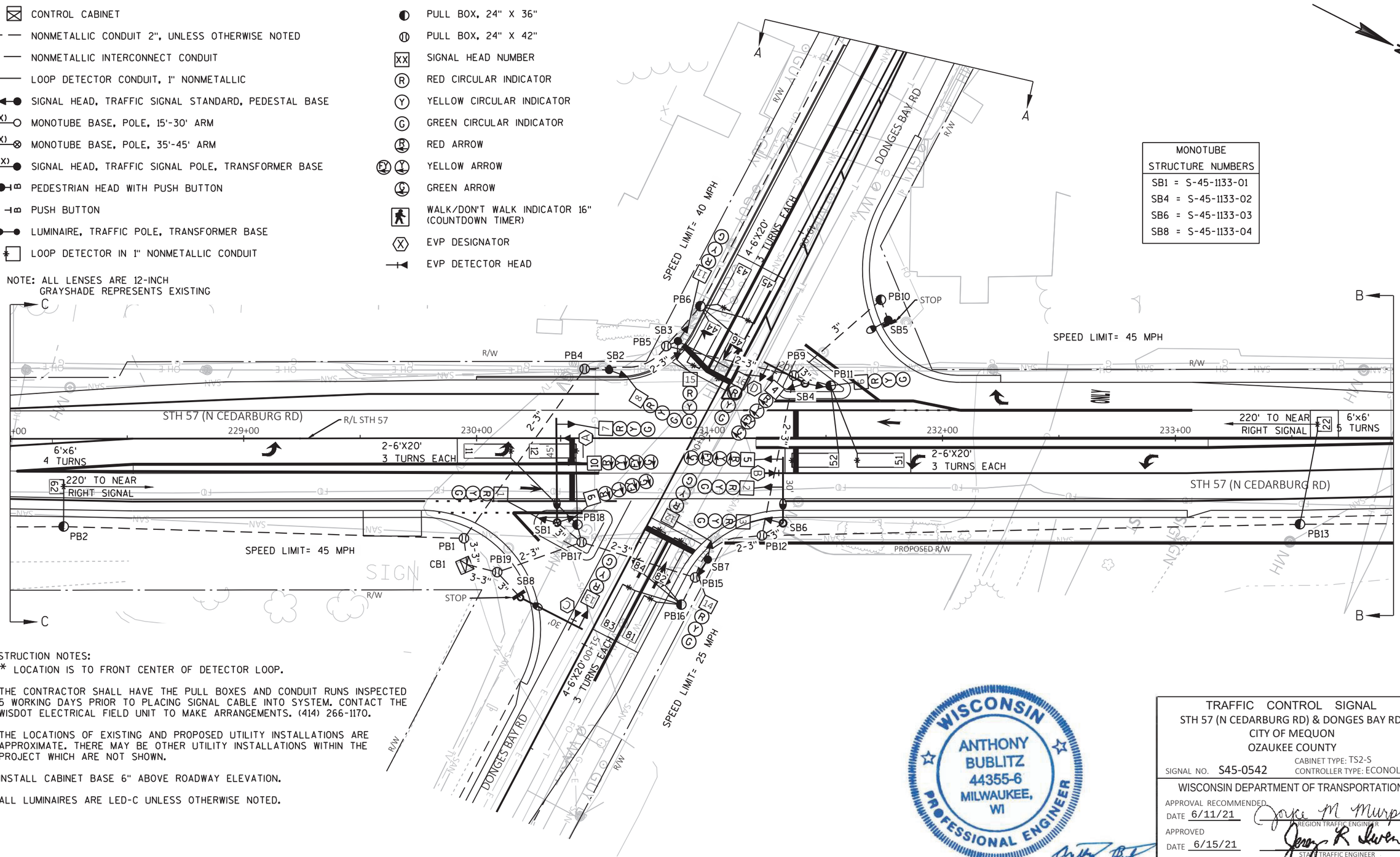
2

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC INTERCONNECT CONDUIT
- LOOP DETECTOR CONDUIT, 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 15'-30' ARM
- (XX) MONOTUBE BASE, POLE, 35'-45' ARM
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- RA RED ARROW
- FY YELLOW ARROW
- GA GREEN ARROW
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- X EVP DESIGNATOR
- EVP DETECTOR HEAD

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

MONOTUBE STRUCTURE NUMBERS
SB1 = S-45-1133-01
SB4 = S-45-1133-02
SB6 = S-45-1133-03
SB8 = S-45-1133-04



CONSTRUCTION NOTES:

1. * LOCATION IS TO FRONT CENTER OF DETECTOR LOOP.
2. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM. CONTACT THE WISDOT ELECTRICAL FIELD UNIT TO MAKE ARRANGEMENTS. (414) 266-1170.
3. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
4. INSTALL CABINET BASE 6" ABOVE ROADWAY ELEVATION.
5. ALL LUMINAIRES ARE LED-C UNLESS OTHERWISE NOTED.

WISCONSIN
ANTHONY BUBLITZ
44355-6
MILWAUKEE, WI
PROFESSIONAL ENGINEER

6/10/21

TRAFFIC CONTROL SIGNAL
STH 57 (N CEDARBURG RD) & DONGES BAY RD
CITY OF MEQUON
OZAUKEE COUNTY

SIGNAL NO. S45-0542
CABINET TYPE: TS2-S
CONTROLLER TYPE: ECONOLITE

WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVAL RECOMMENDED
DATE 6/11/21 — REGION TRAFFIC ENGINEER
APPROVED
DATE 6/15/21 — STATE TRAFFIC ENGINEER

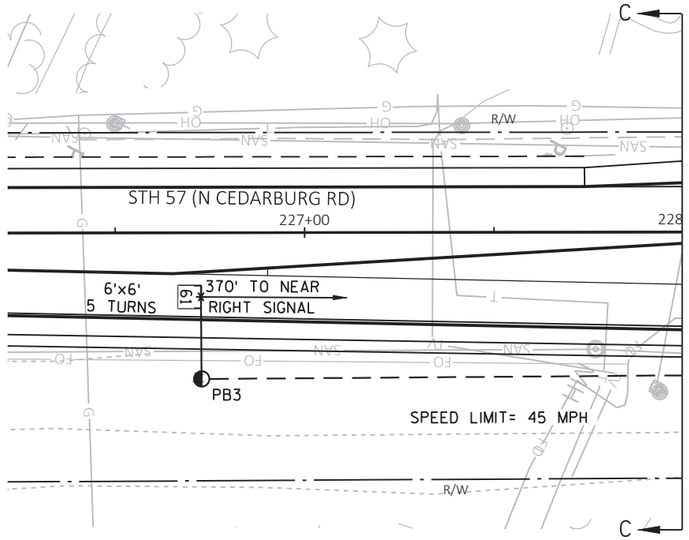
REGION CONTACT: JOYCE MURPHY
DESIGNED BY: LAKESIDE ENGINEERS
REVISED BY:

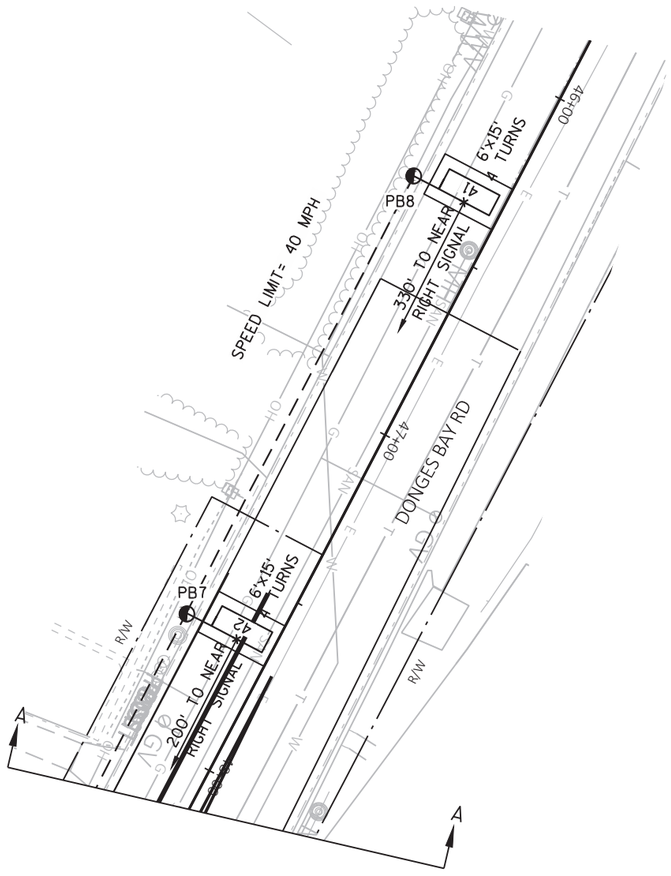
PAGE 1 OF 3

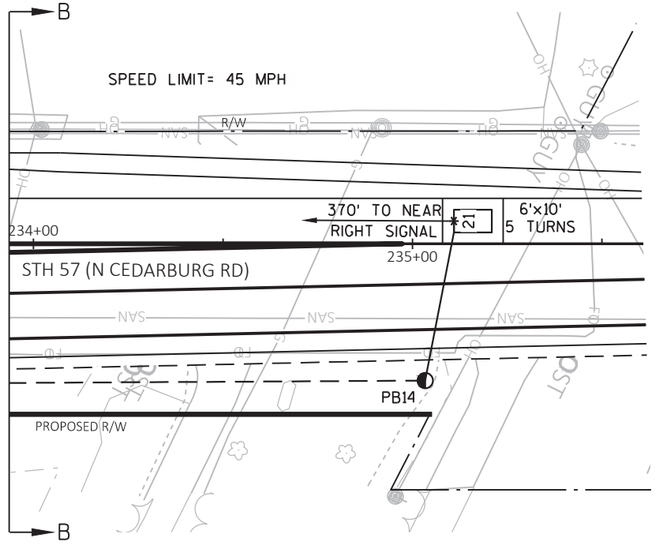
PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	TRAFFIC SIGNAL PLAN	SHEET 379	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\024201_SP.DWG
LAYOUT NAME - 024201
PLOT DATE : 6/1/2021 1:59 PM
PLOT BY : TONY BUBLITZ
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

2







TRAFFIC CONTROL SIGNAL
STH 57 (N CEDARBURG RD) & DONGES BAY RD
CITY OF MEQUON
OZAUKEE COUNTY

SIGNAL NO. S45-0542

REGION CONTACT: JOYCE MURPHY
DESIGNED BY: LAKESIDE ENGINEERS
REVISED BY:

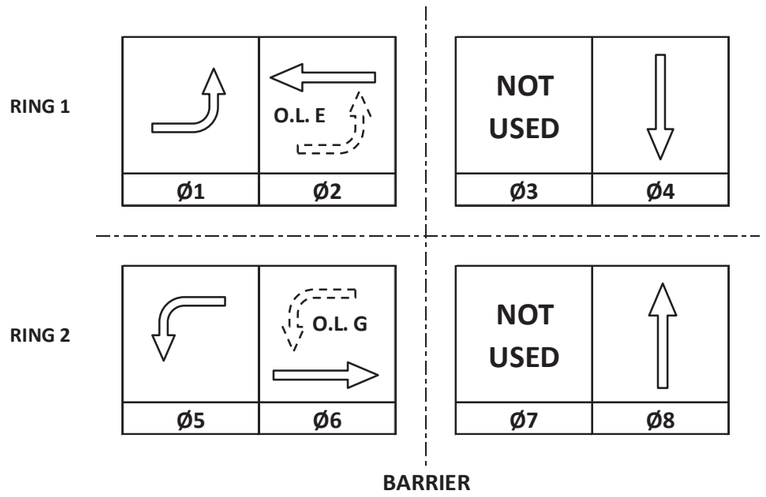
PAGE 2 OF 3

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	TRAFFIC SIGNAL PLAN	SHEET 380	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\024201_SP.DWG
LAYOUT NAME - 024202

PLOT DATE : 6/1/2021 2:00 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

	HEAD NUMBERS	FLASH
Ø1	4,5	R ←
Ø2	6,7,8	R
Ø3		
Ø4	11,12,13	R
Ø5	9,10	R ←
Ø6	1,2,3	R
Ø7		
Ø8	14,15,16	R
Ø2P		
Ø4P		
Ø6P		
Ø8P		
OLE	4,5	-
OLF		
OLG	9,10	-
OLH		



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN	X
4		8		X
5		2		X
6	X	2	MIN	X
8		4		X

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	
CELL MODEM	X

TYPE OF COORDINATION	
NONE	X
TBC	
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO: S-	
SIGNAL SYSTEM NO: SS-	

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	X
TOMAR	
HARDWIRE	
OTHER	
CONFIRMATION LIGHTS	
LIFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
PLAN LOOP DETECTOR*(S)	11	21	41	43	45	51	61	81
CALLED PHASE	1	2	4	4	4	5	6	8
CALL OPTION	X	X		X	X	X	X	X
DELAY TIME	X			X	X	X		X
EXTENTION OPTION	X	X	X	X	X	X	X	X
EXTEND TIME			X					
USE ADDED INITIAL		X					X	
CROSS SWITCH PHASE	2					6		

19	17	23	21	27	25	31	29	DETECTOR INPUT
83								PLAN LOOP DETECTOR*(S)
8								CALLED PHASE
X								CALL OPTION
X								DELAY TIME
X								EXTENTION OPTION
								EXTEND TIME
								USE ADDED INITIAL
								CROSS SWITCH PHASE

DETECTOR INPUT	4	2	8	6	12	10	16	14
PLAN LOOP DETECTOR*(S)	12	22	42	44	46	52	62	82
CALLED PHASE	1	2	4	4	4	5	6	8
CALL OPTION	X	X		X	X	X	X	X
DELAY TIME	X			X	X	X		X
EXTENTION OPTION	X	X	X	X	X	X	X	X
EXTEND TIME			X					
USE ADDED INITIAL		X					X	
CROSS SWITCH PHASE	2					6		

20	18	24	22	28	26	32	30	DETECTOR INPUT
84								PLAN LOOP DETECTOR*(S)
8								CALLED PHASE
X								CALL OPTION
X								DELAY TIME
X								EXTENTION OPTION
								EXTEND TIME
								USE ADDED INITIAL
								CROSS SWITCH PHASE

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT				
PHASE	2+5	6+1	4+8	8+4

AFTER PREEMPTION SEQUENCE 2+5 OR 6+1, CONTROLLER SHALL RETURN TO PHASES 2+6.
AFTER PREEMPTION SEQUENCE 4+8 OR 8+3, CONTROLLER SHALL RETURN TO PHASES 4+8.

STH 57 (N CEDARBURG RD) & DONGES BAY RD
CITY OF MEQUON
OZAUKEE COUNTY
SIGNAL NO: S45-0542 CABINET TYPE: TS2-S
CONTROLLER TYPE: ECONOLITE
DATE: 5/2021 PAGE NUMBER: 3 OF 3

FILE NAME: \\lakesidedc3\Lakeside\Design Projects\2270-04-00 STH 57\10. Roadway\CADD\SheetsPlan\024202_sp.xlsx PLOT DATE: 5/19/2021 PLOT NAME: 024202_sp.xlsx PLOT BY: _____ PLOT SCALE: 1:1

2

PROJECT ID:	2270-04-70
INTERSECTION:	STH 57 & DONGES BAY ROAD

SIGNAL WIRE COLOR CODING	BLK-BLACK	RED-RED	GRN-GREEN
	WHT-WHITE	BLU-BLUE	ORG-ORANGE

CB1 TO	NO. OF CONDUCTORS	HEAD NO.	RED	YELLOW	GREEN	<RED>	<YELLOW>	<GREEN>	FLASHING <YELLOW>	D/WALK	WALK	PED BUTTON	OTHER
SB1	15	1	RED	ORG	GRN								
		7	RED/WHT	BLU/WHT	GRN/WHT								
		9				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
		10				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
SB2	7	8	RED	ORG	GRN								
SB3	12	11	RED	ORG	GRN								
		15	RED/BLK	ORG/BLK	GRN/BLK								
SB4	15	4				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
		6	RED	ORG	GRN								
		16	RED/WHT	BLU/WHT	GRN/WHT								
SB6	12	2	RED	ORG	GRN								
		3	RED	ORG	GRN								
		5				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
SB7	12	12	RED	ORG	GRN								
		14	RED/BLK	ORG/BLK	GRN/BLK								
SB8	7	13	RED	ORG	GRN								

NOTES: USE WHITE CONDUCTOR IN THE SIGNAL CABLE AS THE GROUNDED CONDUCTOR FOR ALL TRAFFIC SIGNAL INDICATIONS.
ENSURE THE GROUNDED CONDUCTOR IN THE FEEDER CABLE AND THE POLE CABLES ARE BOTH 18" LONGER THAN THE UNGROUNDED CONDUCTORS.

EMERGENCY VEHICLE PREEMPTION	
FROM	TO
CB1	SB1 (HEAD A)
CB1	SB4 (HEAD D)
CB1	SB6 (HEAD B)
CB1	SB8 (HEAD C)

EQUIPMENT GROUNDING CONDUCTOR 10 AWG GRN XLP	
FROM	TO
CB1	SB2
SB2	SB3
SB3	SB4
SB4	SB5
SB5	SB6
SB6	SB7
SB7	SB1
SB1	SB8
SB8	CB1

LIGHTING UF 10 AWG W/ GROUND	
FROM	TO
CB1	SB1
SB6	SB5
CB1	SB8
SB1	SB6

PULL BOX BONDING JUMPER 10 AWG GRN XLP	
FROM	TO
PB1	SB2
PB4	SB2
PB5	SB3
PB9	SB4
PB10	SB5
PB12	SB6
PB15	SB7
PB17	SB1
PB19	SB8

WISCONSIN
ANTHONY BUBLITZ
44355-6
MILWAUKEE, WI
PROFESSIONAL ENGINEER
6/10/21

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE	CABLE ROUTING – STH 57 & DONGES BAY ROAD	SHEET:	E

FILE NAME : L:\Design Projects\2270-04-00 STH 57\10. Roadway\CADD\SheetsPlan\024401_cr.ppt PLOT DATE : 5/19/2021 2:57:22 PM PLOT BY : PLOT NAME : 024401_cr PLOT SCALE : 1:1





N

LEGEND

SXX-XXXX — WISDOT OWNED TRAFFIC SIGNAL

① INSTALL ETHERNET SWITCH IN TRAFFIC SIGNAL CABINET

② INSTALL FIBER OPTIC PIGTAIL IN CONDUIT

③ EXISTING ETHERNET SWITCH AND FIBER OPTIC PIGTAIL TO REMAIN

④ INSTALL RADIO INTERCONNECT ANTENNA, 5.8GHz

⑤ WISDOT TO INSTALL CELL MODEM

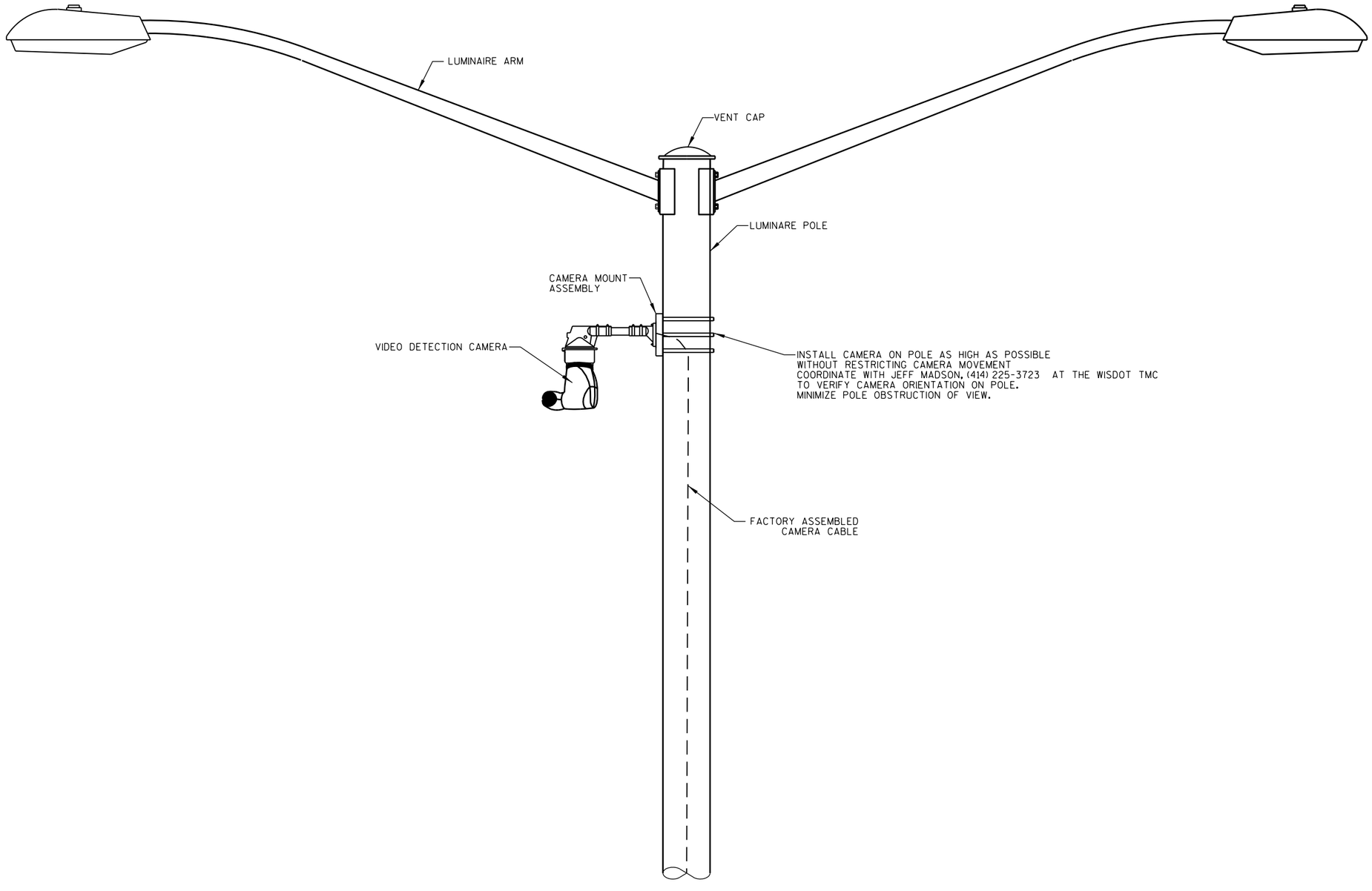
PROJECT NO: 2270-04-70	HWY: STH 57/100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL INTERCONNECT PROJECT OVERVIEW	SHEET 383	E

FILE NAME : I:\64008_STH_57\22700400\SIG\OVERVIEW\2270-04-00_SP_PO_IC.DWG
LAYOUT NAME - SP_PO

PLOT DATE : 6/9/2021 1:56 PM PLOT BY : ALICIA DOUGHERTY PLOT NAME : PLOT SCALE : 1 IN:500 FT

WISDOT/CADDS SHEET 42

2



CCTV MOUNTING DETAIL
(LUMINAIRE OR SIGNAL POLE MOUNT)

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC INTERCONNECT CONDUIT
- PULL BOX, 24" X 42"
- PULL BOX, 24" X 36"
- COMMUNICATIONS VAULT
- RADIO INTERCONNECT ANTENNA, 5.8GHz

N

STH 100
(W BROWN DEER RD)

N ARBON DR

R/W

PB-143 PB-146 PB-147 PB-148 PB-145

CV14

475+00 476+00 477+00 478+00 479+00 480+00 480+75.00

REMOVE FIBER OPTIC CABLE OUTDOOR PLANT 36-CT

REMOVE FIBER OPTIC CABLE OUTDOOR PLANT 36-CT

REMOVE FIBER OPTIC CABLE OUTDOOR PLANT 36-CT FROM CV17 TO CV14 LEAVE EXISTING FIBER OPTIC SPLICE ENCLOSURE IN PLACE

REMOVE FIBER OPTIC CABLE OUTDOOR PLANT 36-CT

REMOVE FIBER OPTIC CABLE OUTDOOR PLANT 36-CT

FO I/C SAN OH G

CONSTRUCTION NOTES:

1. EXISTING CONDUIT RUNS BETWEEN STA 482+00 AND STA 504+00, AND BETWEEN STA 504+00 AND STA 506+50 ON THE SOUTH SIDE OF STH 100 TO BE ABANDONED IN PLACE. ALL OTHER CONDUIT RUNS TO BE REUSED. CONTRACTOR TO REMOVE ANY TRACER WIRE REMAINING IN THE CONDUIT.
2. THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. GRAYSHADE REPRESENTS EXISTING TO REMAIN. BOLD REPRESENTS ITEMS TO BE REMOVED.

TRAFFIC CONTROL INTERCONNECT
STH 57 AND STH 100
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY
SIGNAL NO. S40-1163, S40-1176, S40-1193
S40-1227, S40-1473

REGION CONTACT: JOYCE MURPHY
DESIGNED BY: HNTB
REVISED BY:

PAGE 1 OF 7

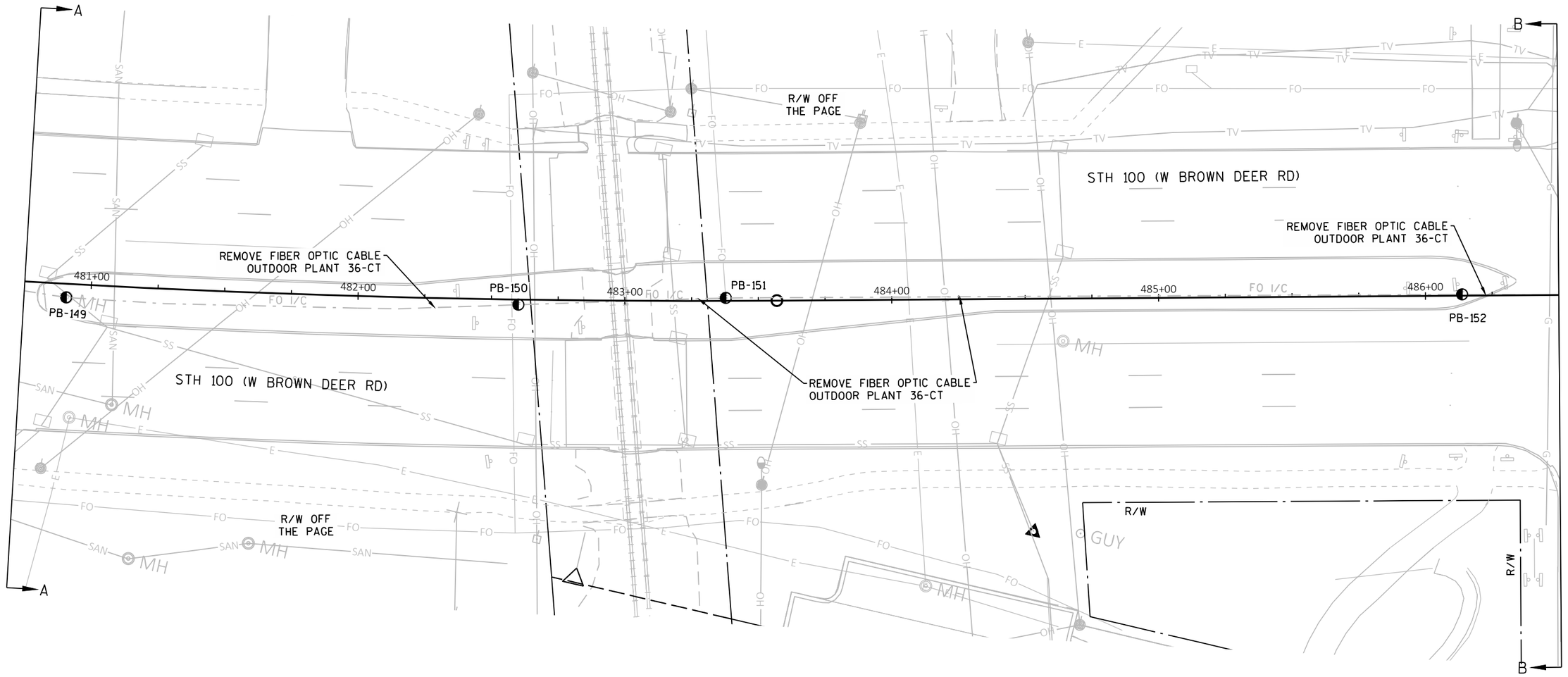
PROJECT NO: 2270-04-70	HWY: STH 57/100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL INTERCONNECT REMOVAL PLAN	SHEET 385 E

FILE NAME : I:\64008_STH_57\22700400\SIG\COM\2270-04-00_COM_REM.DWG
LAYOUT NAME - COM_rem1

PLOT DATE : 6/9/2021 1:55 PM PLOT BY : ALICIA DOUGHERTY PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

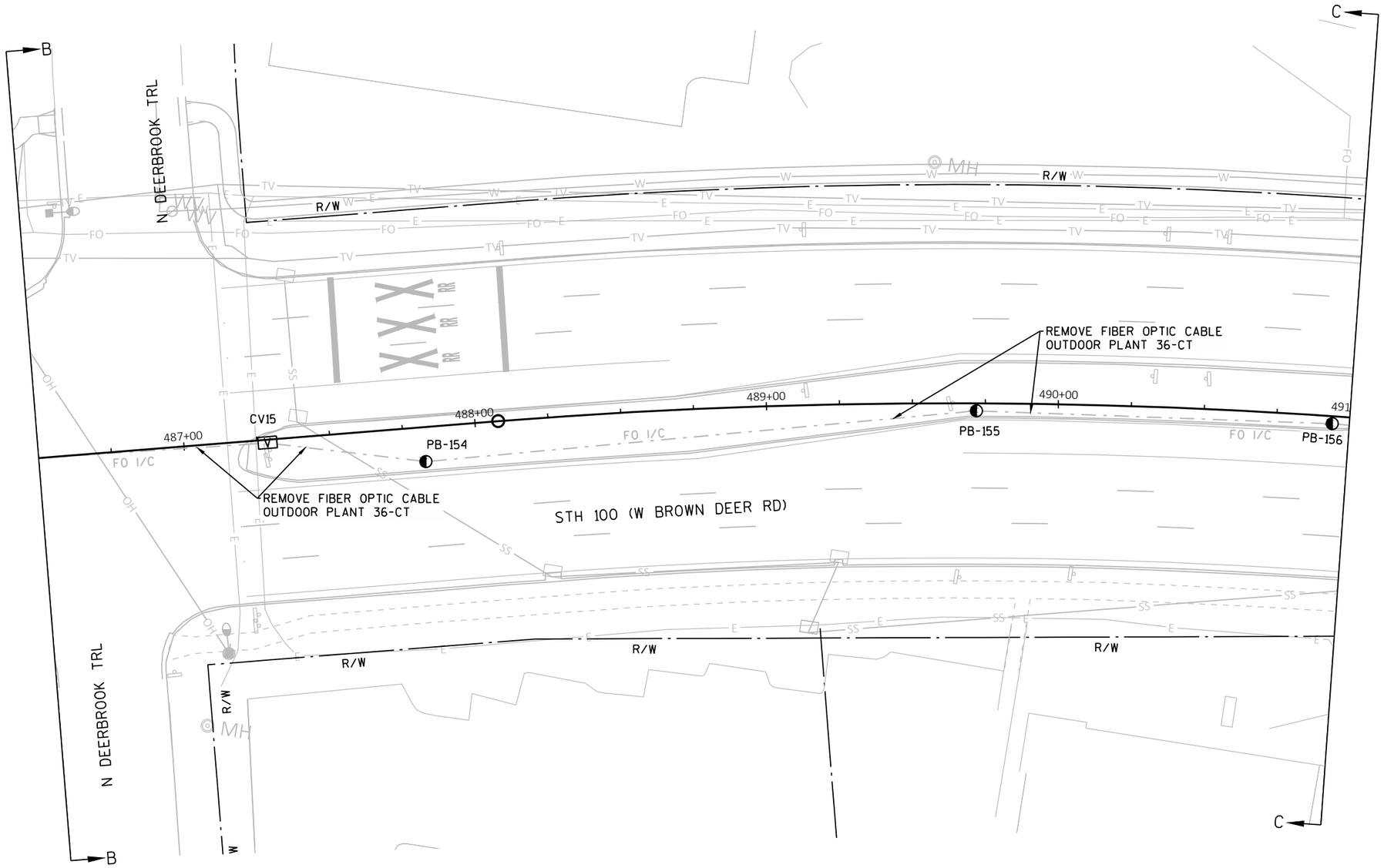


TRAFFIC CONTROL INTERCONNECT
STH 57 AND STH 100
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY
SIGNAL NO. S40-1163, S40-1176, S40-1193
S40-1227, S40-1473

REGION CONTACT: JOYCE MURPHY
DESIGNED BY: HNTB
REVISED BY:

PROJECT NO: 2270-04-70	HWY: STH 57/100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL INTERCONNECT REMOVAL PLAN	SHEET 386	E

FILE NAME : I:\64008_STH_57\22700400\SIG\COM\2270-04-00_COM_REM.DWG
LAYOUT NAME - COM_rem2
PLOT DATE : 7/20/2021 1:18 PM
PLOT BY : ALICIA DOUGHERTY
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42



TRAFFIC CONTROL INTERCONNECT
STH 57 AND STH 100
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY
SIGNAL NO. S40-1163, S40-1176, S40-1193
S40-1227, S40-1473

REGION CONTACT: JOYCE MURPHY
DESIGNED BY: HNTB
REVISED BY:

PAGE 3 OF 7

PROJECT NO: 2270-04-70	HWY: STH 57/100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL INTERCONNECT REMOVAL PLAN	SHEET 387	E

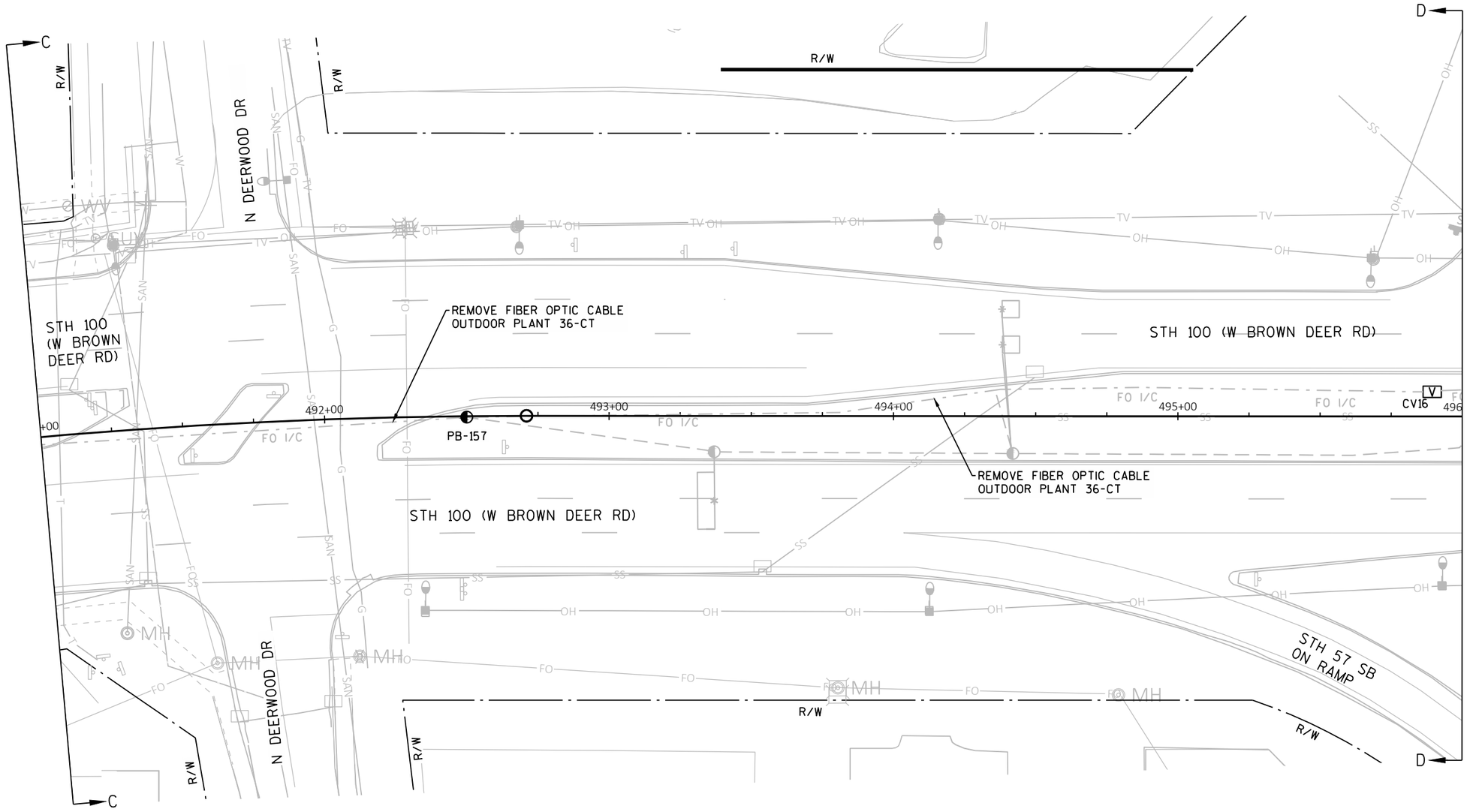
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LAYOUT NAME - COM_rem3

PLOT DATE : 6/9/2021 1:56 PM PLOT BY : ALICIA DOUGHERTY PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

N



TRAFFIC CONTROL INTERCONNECT
STH 57 AND STH 100
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY
SIGNAL NO. S40-1163, S40-1176, S40-1193
S40-1227, S40-1473

REGION CONTACT: JOYCE MURPHY
DESIGNED BY: HNTB
REVISED BY:

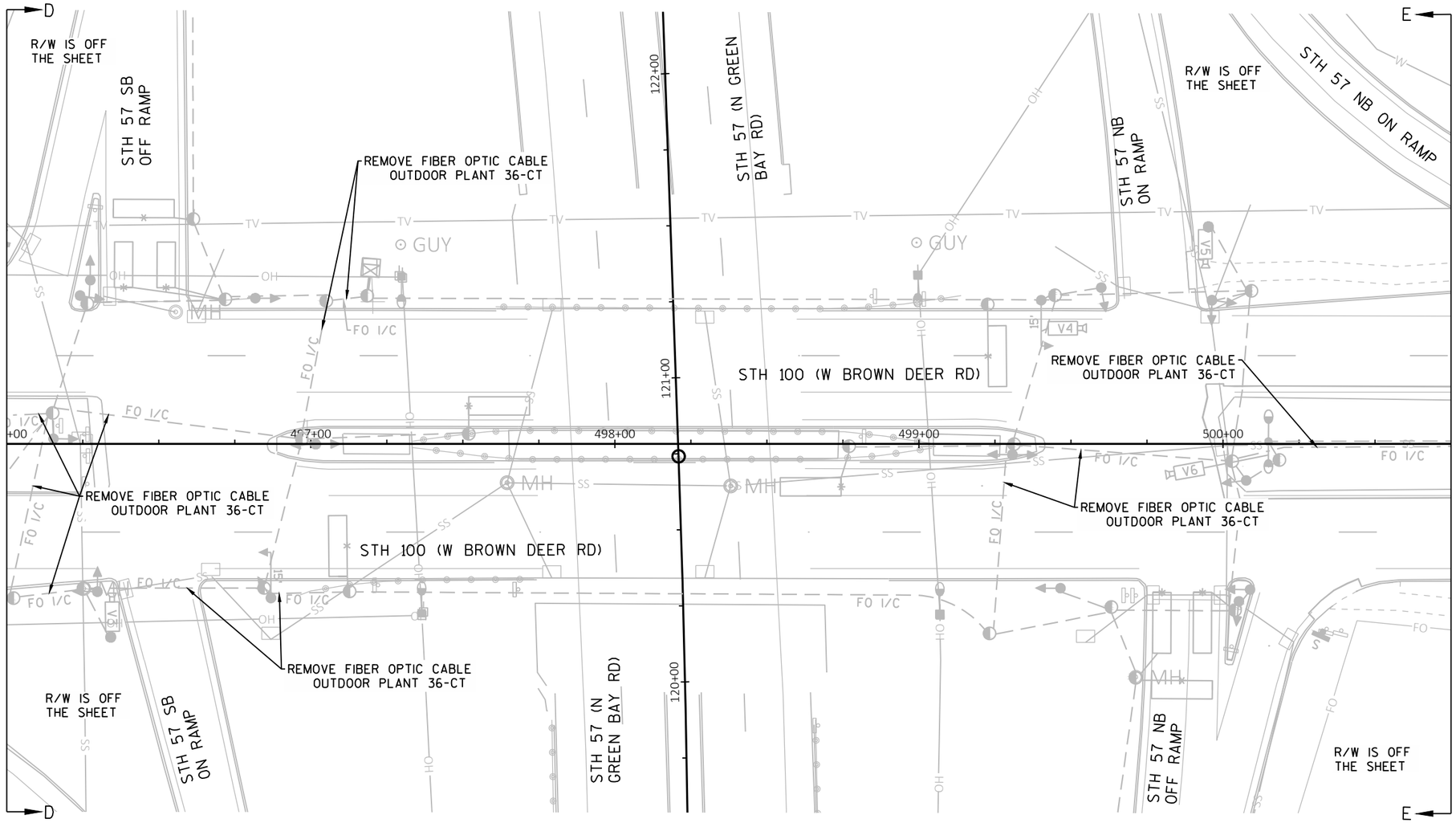
PROJECT NO: 2270-04-70	HWY: STH 57/100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL INTERCONNECT REMOVAL PLAN	SHEET 388	E

FILE NAME : I:\64008_STH_57\22700400\SIG\COM\2270-04-00_COM_REM.DWG
LAYOUT NAME - COM_rem4

PLOT DATE : 6/9/2021 1:56 PM PLOT BY : ALICIA DOUGHERTY PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N



TRAFFIC CONTROL INTERCONNECT
STH 57 AND STH 100
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY
SIGNAL NO. S40-1163, S40-1176, S40-1193
S40-1227, S40-1473

REGION CONTACT: JOYCE MURPHY
DESIGNED BY: HNTB
REVISED BY:

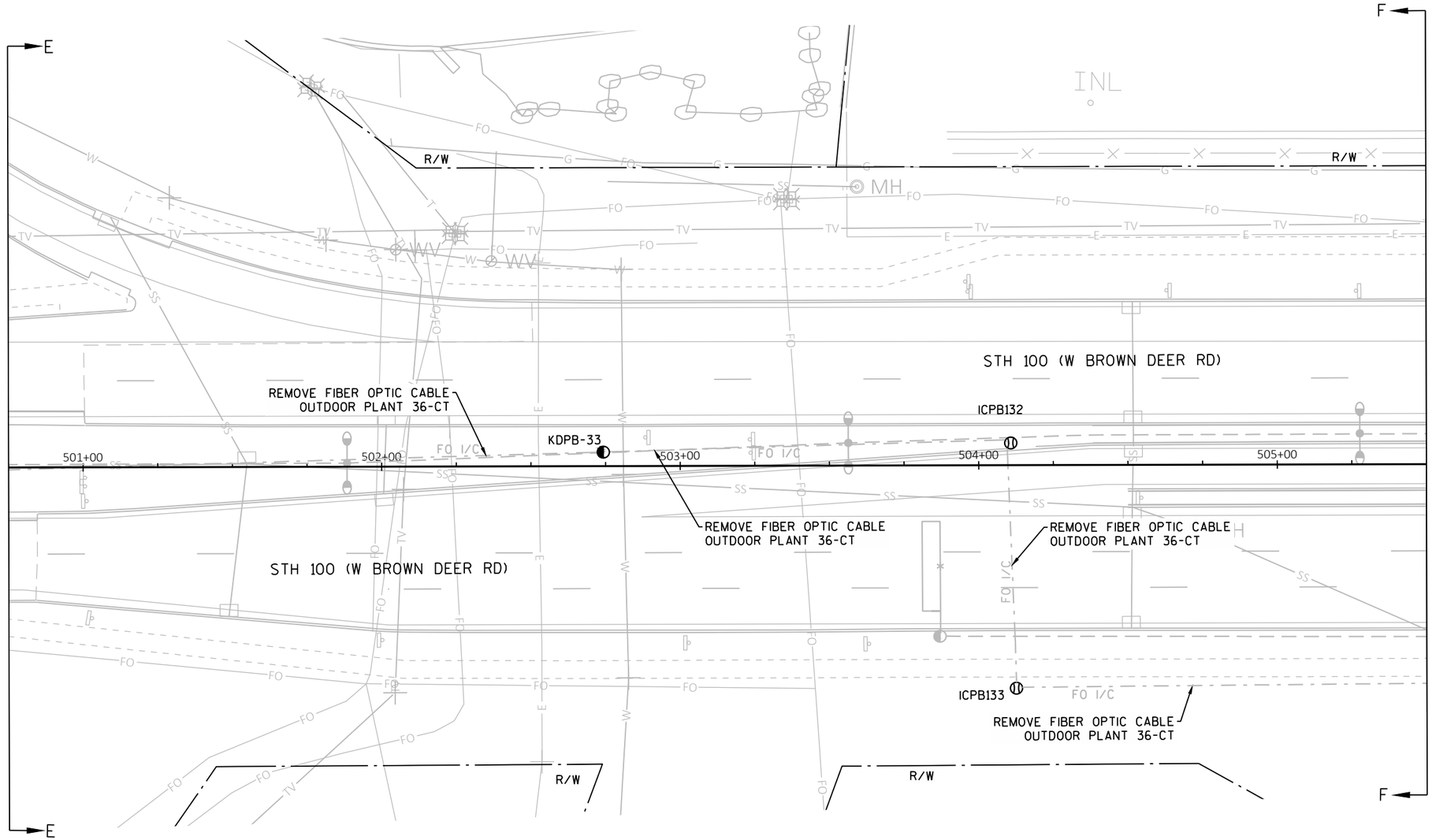
PROJECT NO: 2270-04-70	HWY: STH 57/100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL INTERCONNECT REMOVAL PLAN	SHEET 389	E

FILE NAME : I:\64008_STH_57\22700400\SIG\COM\2270-04-00_COM_REM.DWG
LAYOUT NAME - COM_rem5

PLOT DATE : 6/9/2021 1:56 PM PLOT BY : ALICIA DOUGHERTY PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N



TRAFFIC CONTROL INTERCONNECT
STH 57 AND STH 100
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY
SIGNAL NO. S40-1163, S40-1176, S40-1193
S40-1227, S40-1473

REGION CONTACT: JOYCE MURPHY
DESIGNED BY: HNTB
REVISED BY:

PROJECT NO: 2270-04-70	HWY: STH 57/100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL INTERCONNECT REMOVAL PLAN	SHEET 390	E

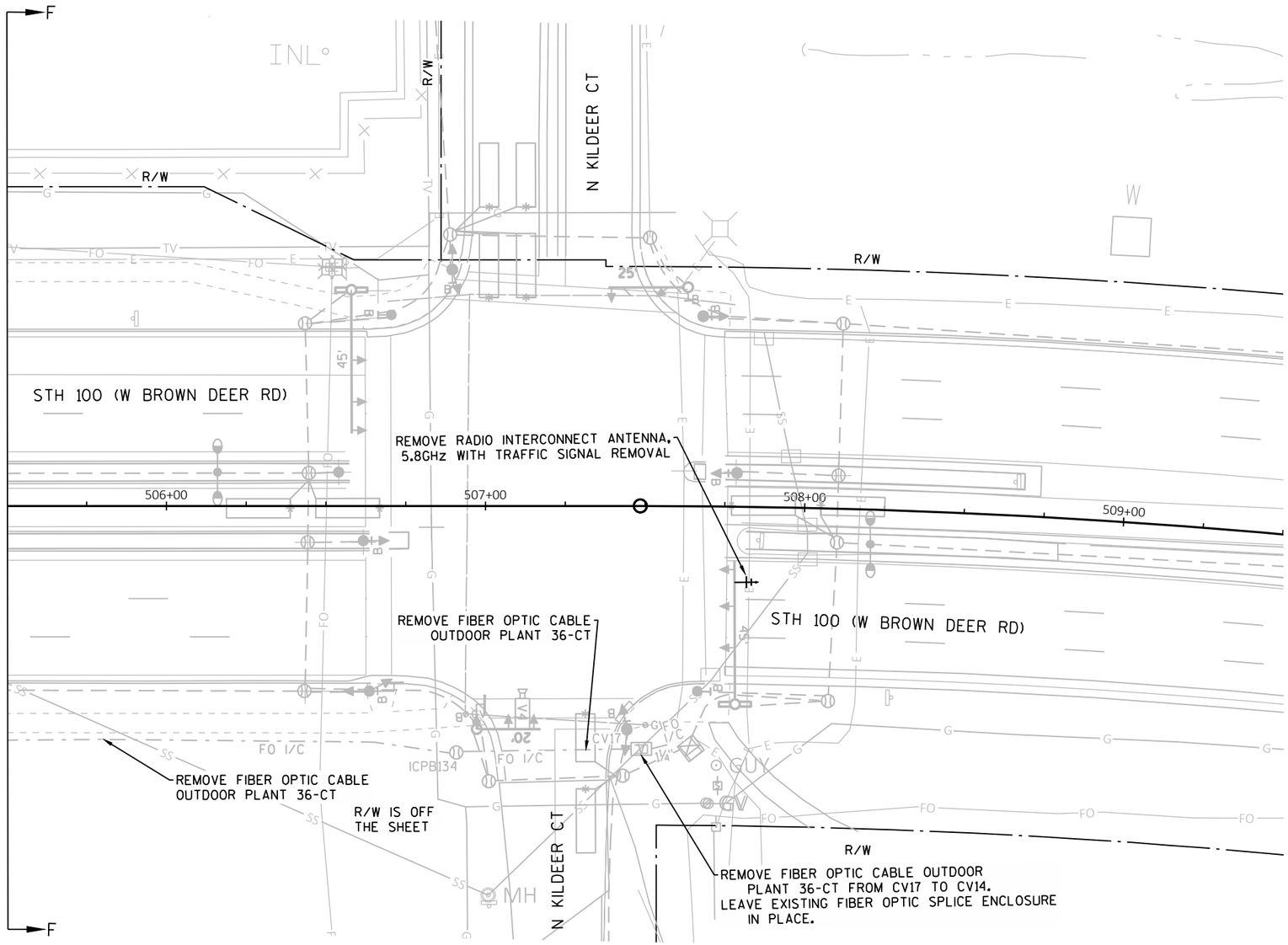
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LAYOUT NAME - COM_rem6

PLOT DATE : 6/9/2021 1:56 PM PLOT BY : ALICIA DOUGHERTY PLOT NAME : PLOT SCALE : 1 IN:40 FT

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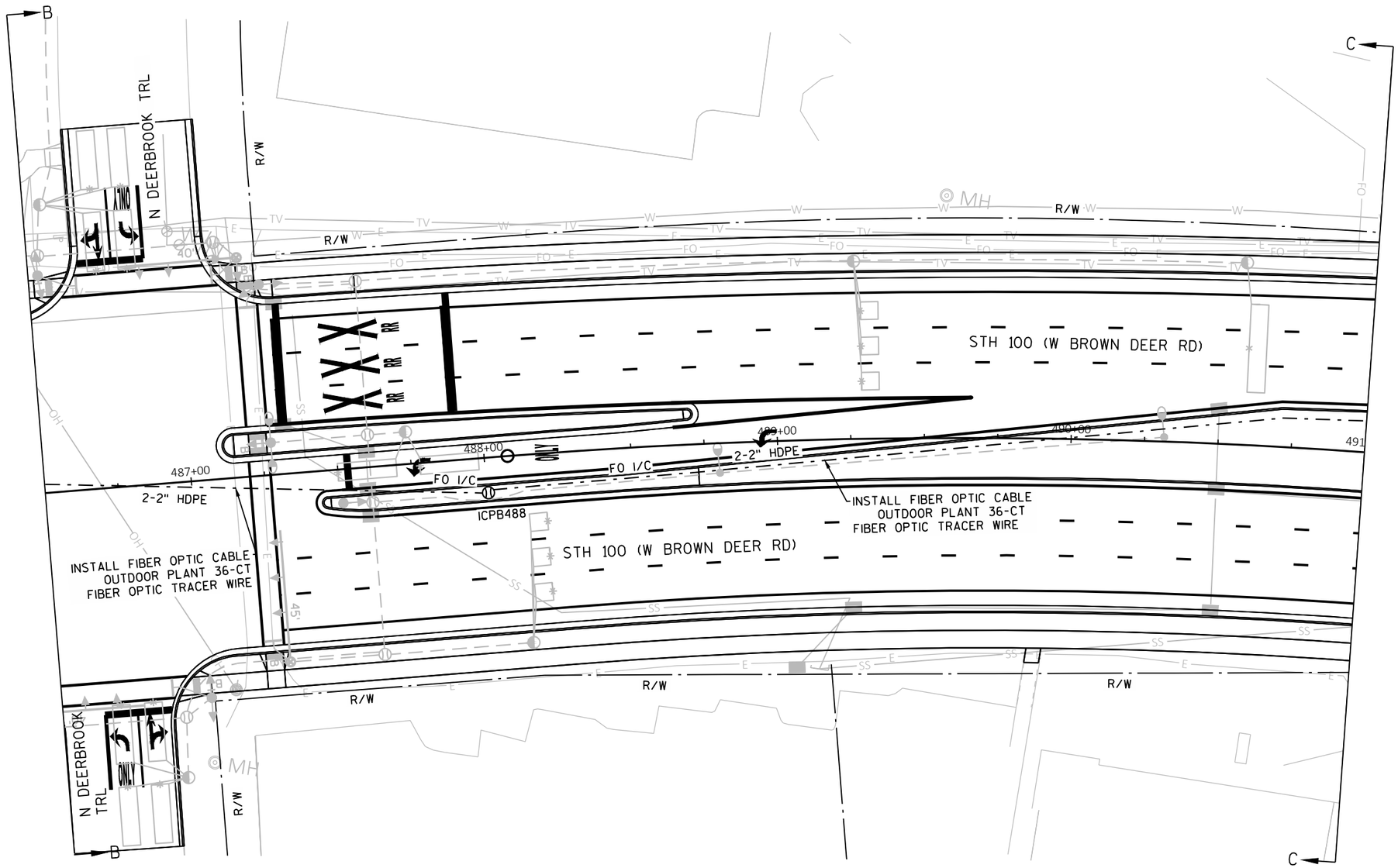


TRAFFIC CONTROL INTERCONNECT
STH 57 AND STH 100
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY
SIGNAL NO. S40-1163, S40-1176, S40-1193
S40-1227, S40-1473

REGION CONTACT: JOYCE MURPHY
DESIGNED BY: HNTB
REVISED BY:

PROJECT NO: 2270-04-70	HWY: STH 57/100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL INTERCONNECT REMOVAL PLAN	SHEET 391	E

FILE NAME : I:\64008_STH_57\22700400\SIG\COM\2270-04-00_COM_REM.DWG
LAYOUT NAME - COM_rem7
PLOT DATE : 6/16/2021 10:49 AM
PLOT BY : ALICIA DOUGHERTY
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42



TRAFFIC CONTROL INTERCONNECT
STH 57 AND STH 100
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY
SIGNAL NO. S40-1163, S40-1176, S40-1193
S40-1227, S40-1473

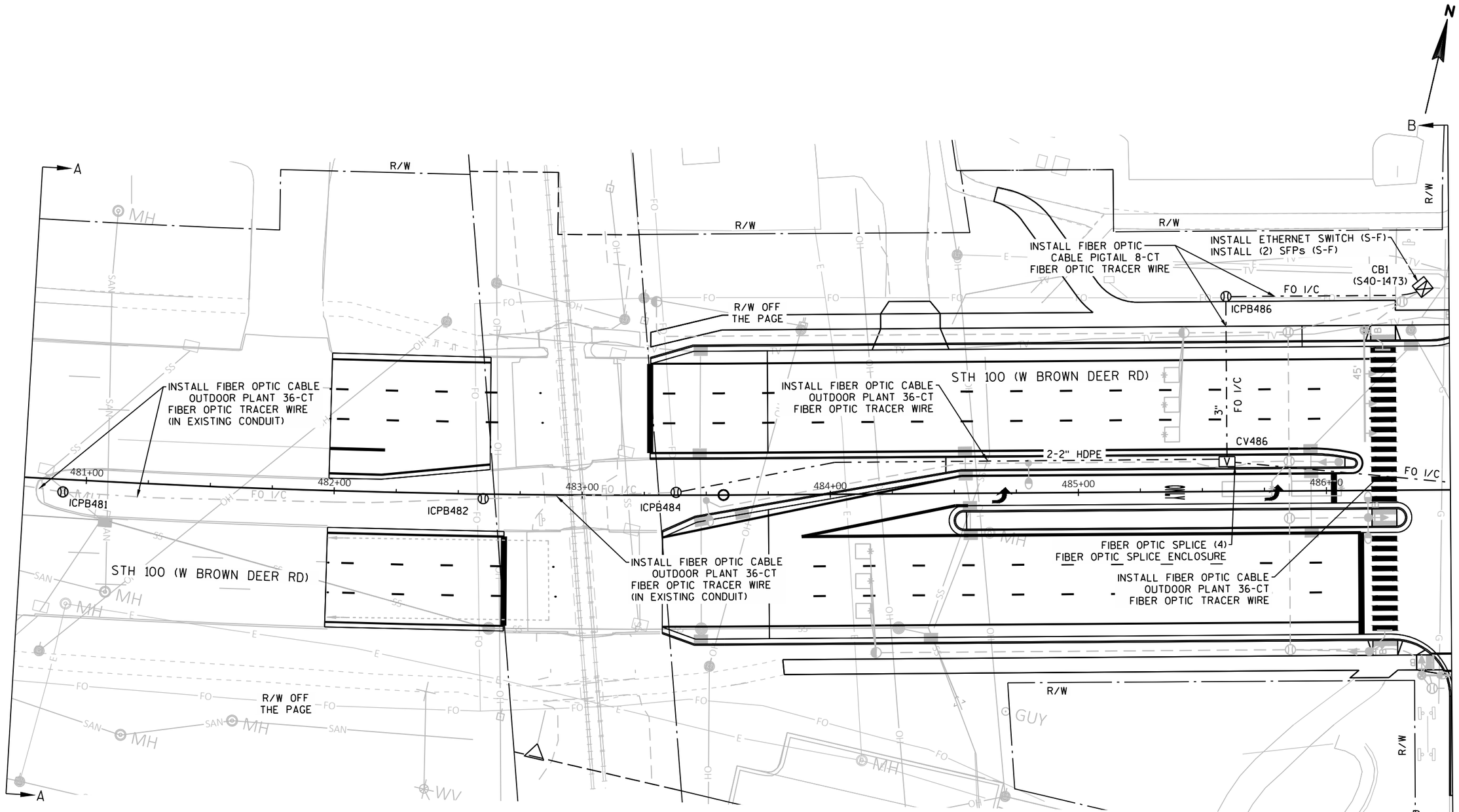
REGION CONTACT: JOYCE MURPHY
DESIGNED BY: HNTB
REVISED BY:

PROJECT NO: 2270-04-70	HWY: STH 57/100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL INTERCONNECT PLAN	SHEET 392	E

FILE NAME : I:\64008_STH_57\22700400\SIG\COM\2270-04-00_COM.DWG
LAYOUT NAME - 3 - STH100_Com - COM_3

PLOT DATE : 6/9/2021 1:51 PM PLOT BY : ALICIA DOUGHERTY PLOT NAME : PLOT SCALE : 1 IN:40 FT

2



TRAFFIC CONTROL INTERCONNECT
STH 57 AND STH 100
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY
SIGNAL NO. S40-1163, S40-1176, S40-1193
S40-1227, S40-1473

REGION CONTACT: JOYCE MURPHY
DESIGNED BY: HNTB
REVISED BY:

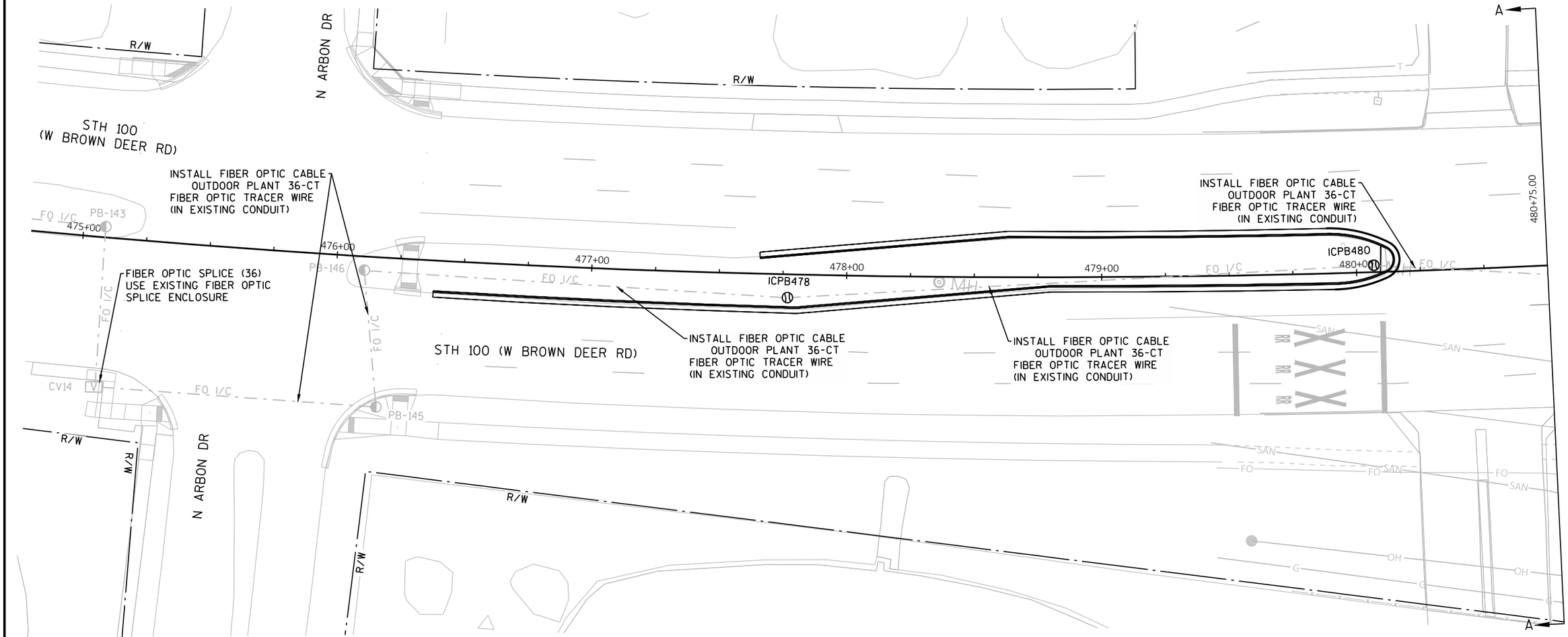
PROJECT NO: 2270-04-70	HWY: STH 57/100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL INTERCONNECT PLAN	SHEET 393	E

FILE NAME : I:\64008_STH_57\22700400\SIG\COM\2270-04-00_COM.DWG
LAYOUT NAME - 2 - STH100_Com - COM_2

PLOT DATE : 7/22/2021 10:40 AM PLOT BY : ALICIA DOUGHERTY PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC INTERCONNECT CONDUIT
- PULL BOX, 24" X 42"
- PULL BOX, 24" X 36"
- COMMUNICATIONS VAULT
- CCTV CAMERA
- RADIO INTERCONNECT ANTENNA, 5.8GHz



CONSTRUCTION NOTES:

1. INSTALL INTERCONNECT CONDUIT IN STAGE 1.
2. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING INTERCONNECT CABLE INTO SYSTEM. CONTACT THE WISDOT ELECTRICAL FIELD UNIT TO MAKE ARRANGEMENTS. (414) 266-1170.
3. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
4. LEAVE 100-FEET OF FIBER OPTIC INTERCONNECT CABLE COILED IN EACH COMMUNICATIONS VAULT AND 30-FEET IN EACH PULL BOX.
5. THE ENTIRE MAINLINE FIBER OPTIC CABLE SHALL NOT BE CUT AND/OR SPLICED IN THE VAULTS NEAREST THE TRAFFIC SIGNAL CABINET WHILE MAKING THE PIGTAIL CONNECTION. ONLY THE REQUIRED BUFFER TUBE SHALL BE CUT AND SPLICED WITH THE PIGTAIL CONNECTION.
6. PROPOSED STORM SEWER, LIGHTING, DETECTABLE WARNING FIELDS, AND TRAFFIC SIGNALS ARE SHOWN GRAYSHADED FOR PLAN CLARITY.

TRAFFIC CONTROL INTERCONNECT
STH 57 AND STH 100
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY
SIGNAL NO. S40-1163, S40-1176, S40-1193
S40-1227, S40-1473

REGION CONTACT: JOYCE MURPHY
DESIGNED BY: HNTB
REVISED BY:

PROJECT NO: 2270-04-70	HWY: STH 57/100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL INTERCONNECT PLAN	SHEET 394	E

FILE NAME : I:\64008_STH_57\22700400\SIG\COM\2270-04-00_COM.DWG
LAYOUT NAME - 1 - STH100_Com - COM_1
PLOT DATE : 7/20/2021 1:19 PM
PLOT BY : ALICIA DOUGHERTY
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

2

N

C

D

R/W

N DEERWOOD DR

STH 100 (W BROWN DEER RD)

STH 100 (W BROWN DEER RD)

INSTALL FIBER OPTIC CABLE
OUTDOOR PLANT 36-CT
FIBER OPTIC TRACER WIRE

2-2" HDPE

FO I/C

492+00

493+00

494+00

495+00

496

STH 100 (W BROWN DEER RD)

N DEERWOOD DR

ONLY

R/W

R/W

R/W

R/W

C

D

TRAFFIC CONTROL INTERCONNECT
STH 57 AND STH 100
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY

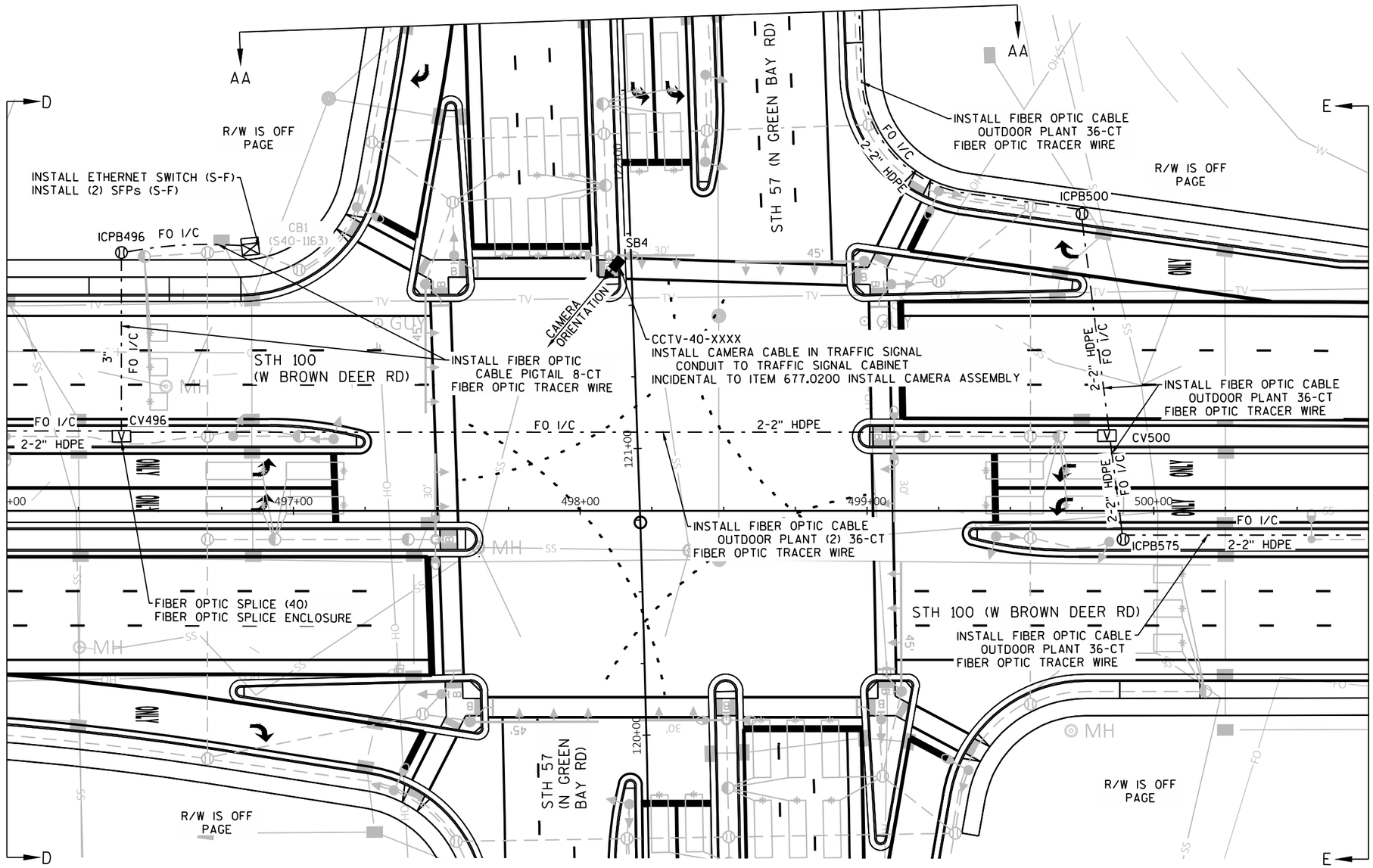
SIGNAL NO. S40-1163, S40-1176, S40-1193
S40-1227, S40-1473

REGION CONTACT: JOYCE MURPHY
DESIGNED BY: HNTB
REVISED BY:

PROJECT NO: 2270-04-70	HWY: STH 57/100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL INTERCONNECT PLAN	SHEET 395	E

FILE NAME : I:\64008_STH_57\22700400\SIG\COM\2270-04-00_COM.DWG
LAYOUT NAME - 4 - STH100_Com - COM_4

PLOT DATE : 6/9/2021 1:52 PM PLOT BY : ALICIA DOUGHERTY PLOT NAME : PLOT SCALE : 1 IN:40 FT



TRAFFIC CONTROL INTERCONNECT
STH 57 AND STH 100
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY
SIGNAL NO. S40-1163, S40-1176, S40-1193
S40-1227, S40-1473

REGION CONTACT: JOYCE MURPHY
DESIGNED BY: HNTB
REVISED BY:

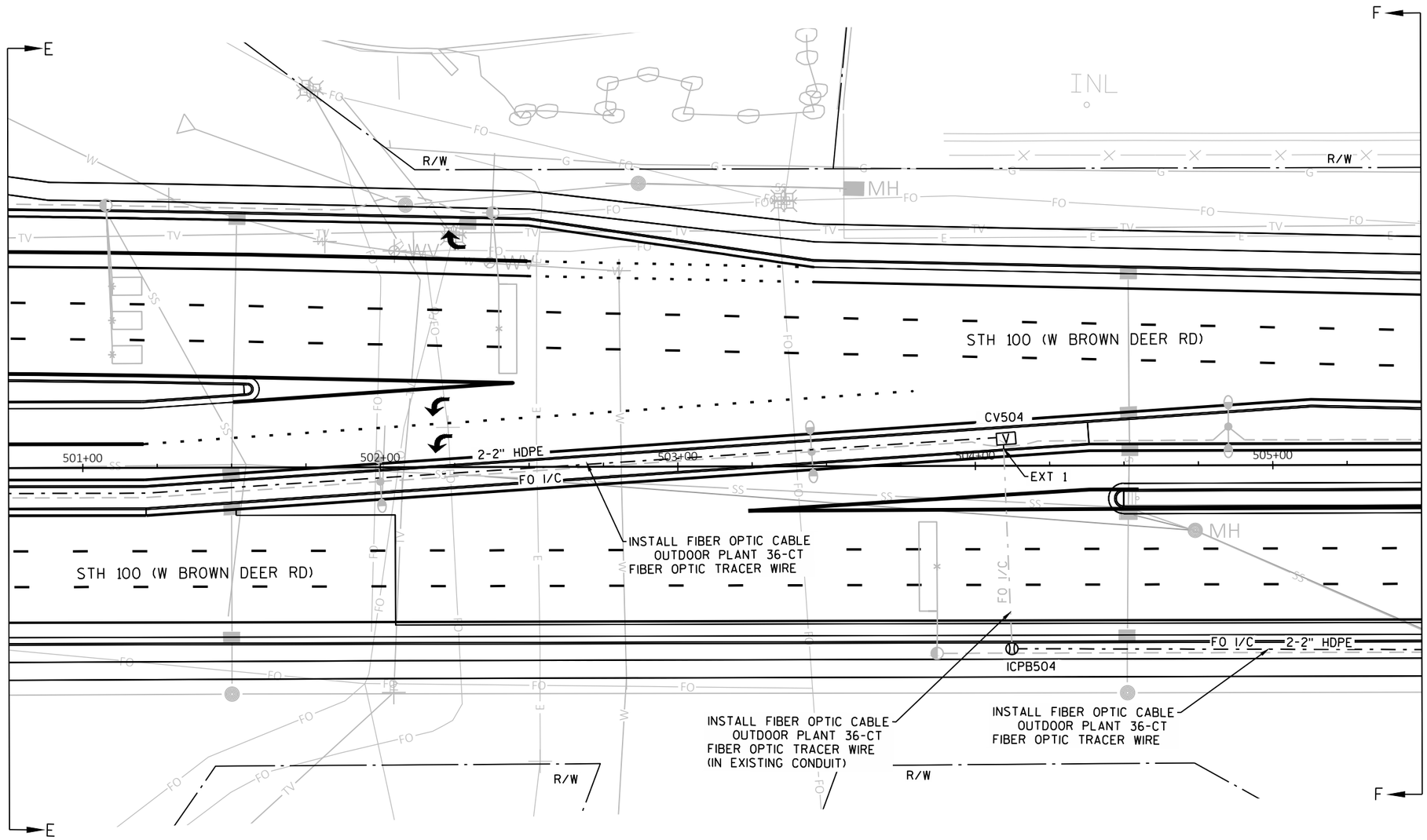
PAGE 5 OF 13

PROJECT NO: 2270-04-70	HWY: STH 57/100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL INTERCONNECT PLAN	SHEET 396	E

FILE NAME : I:\64008_STH_57\22700400\SIG\COM\2270-04-00_COM.DWG
LAYOUT NAME - 5 - STH100_Com - COM_5
PLOT DATE : 6/9/2021 1:52 PM PLOT BY : ALICIA DOUGHERTY PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N



TRAFFIC CONTROL INTERCONNECT
STH 57 AND STH 100
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY
SIGNAL NO. S40-1163, S40-1176, S40-1193
S40-1227, S40-1473

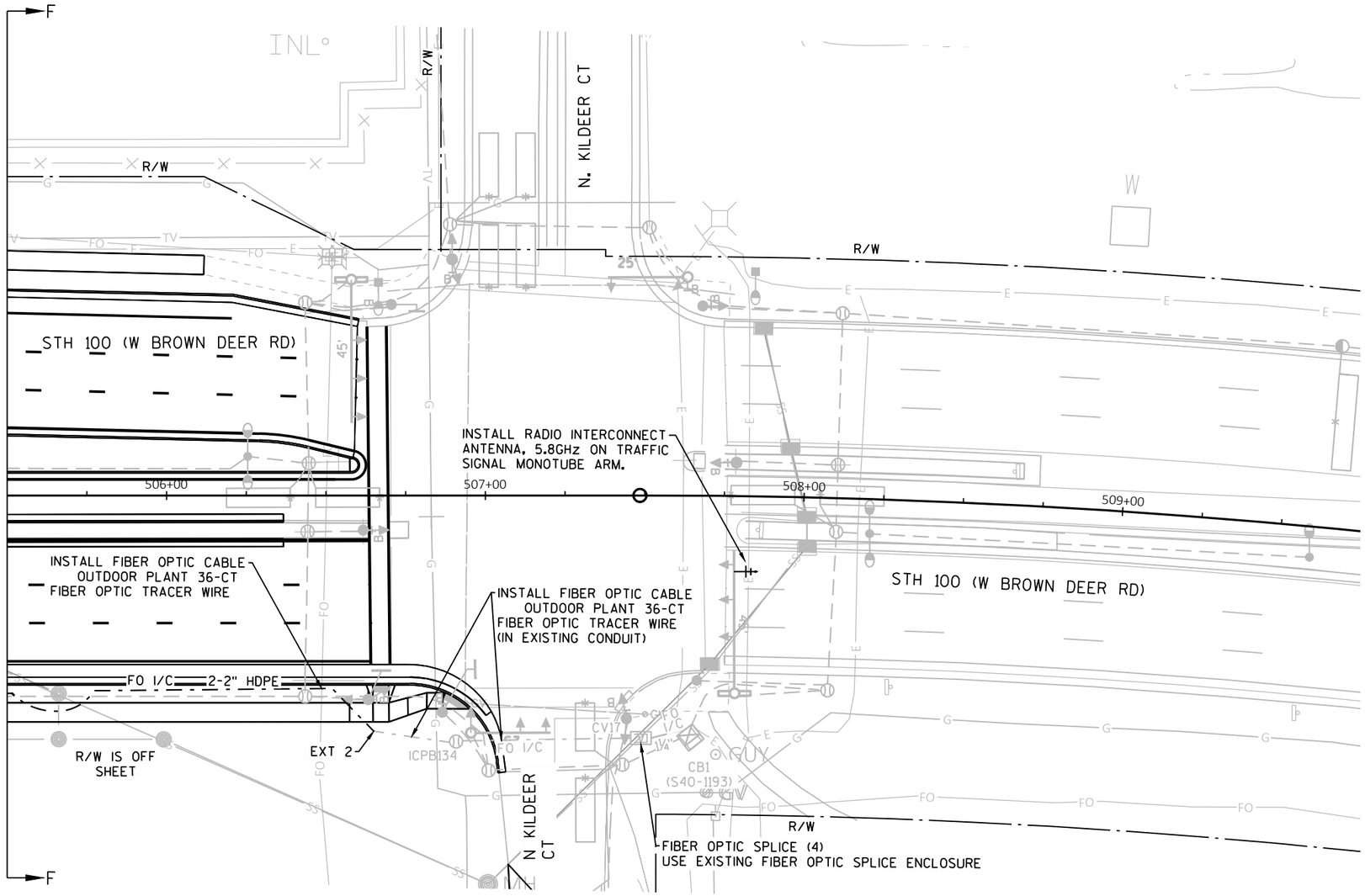
REGION CONTACT: JOYCE MURPHY
DESIGNED BY: HNTB
REVISED BY:

PROJECT NO: 2270-04-70	HWY: STH 57/100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL INTERCONNECT PLAN	SHEET 397	E

FILE NAME : I:\64008_STH_57\22700400\SIG\COM\2270-04-00_COM.DWG
LAYOUT NAME - 6 - STH100_Com - COM_6

PLOT DATE : 6/9/2021 1:52 PM PLOT BY : ALICIA DOUGHERTY PLOT NAME : PLOT SCALE : 1 IN:40 FT

N



TRAFFIC CONTROL INTERCONNECT
STH 57 AND STH 100
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY
SIGNAL NO. S40-1163, S40-1176, S40-1193
S40-1227, S40-1473

REGION CONTACT: JOYCE MURPHY
DESIGNED BY: HNTB
REVISED BY:

PAGE 7 OF 13

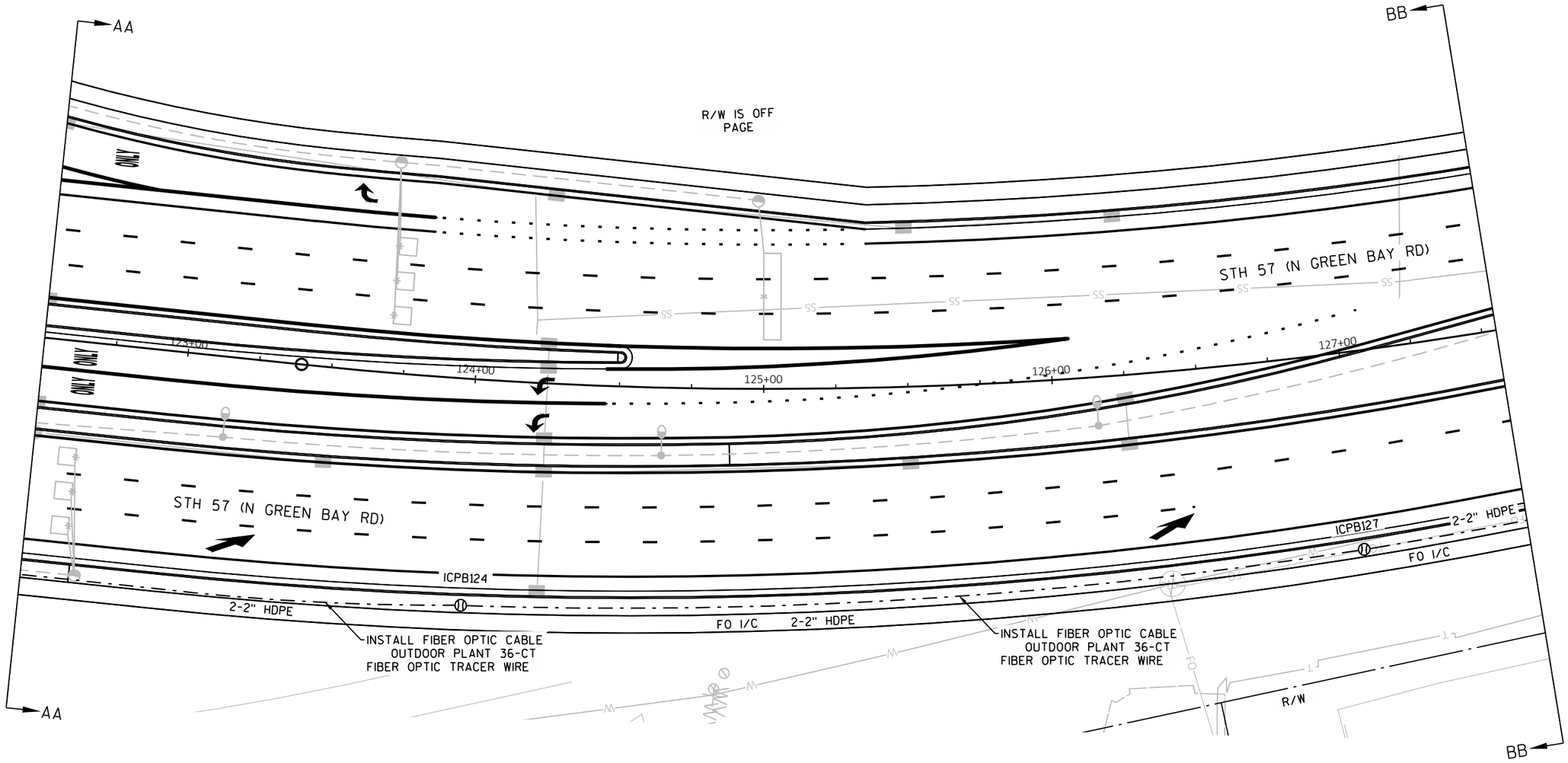
PROJECT NO: 2270-04-70	HWY: STH 57/100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL INTERCONNECT PLAN	SHEET 398	E

FILE NAME : I:\64008_STH_57\22700400\SIG\COM\2270-04-00_COM.DWG
LAYOUT NAME - 7 - STH100_Com - COM_7

PLOT DATE : 6/16/2021 10:54 AM PLOT BY : ALICIA DOUGHERTY PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



TRAFFIC CONTROL INTERCONNECT
STH 57 AND STH 100
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY
SIGNAL NO. S40-1163, S40-1176, S40-1193
S40-1227, S40-1473

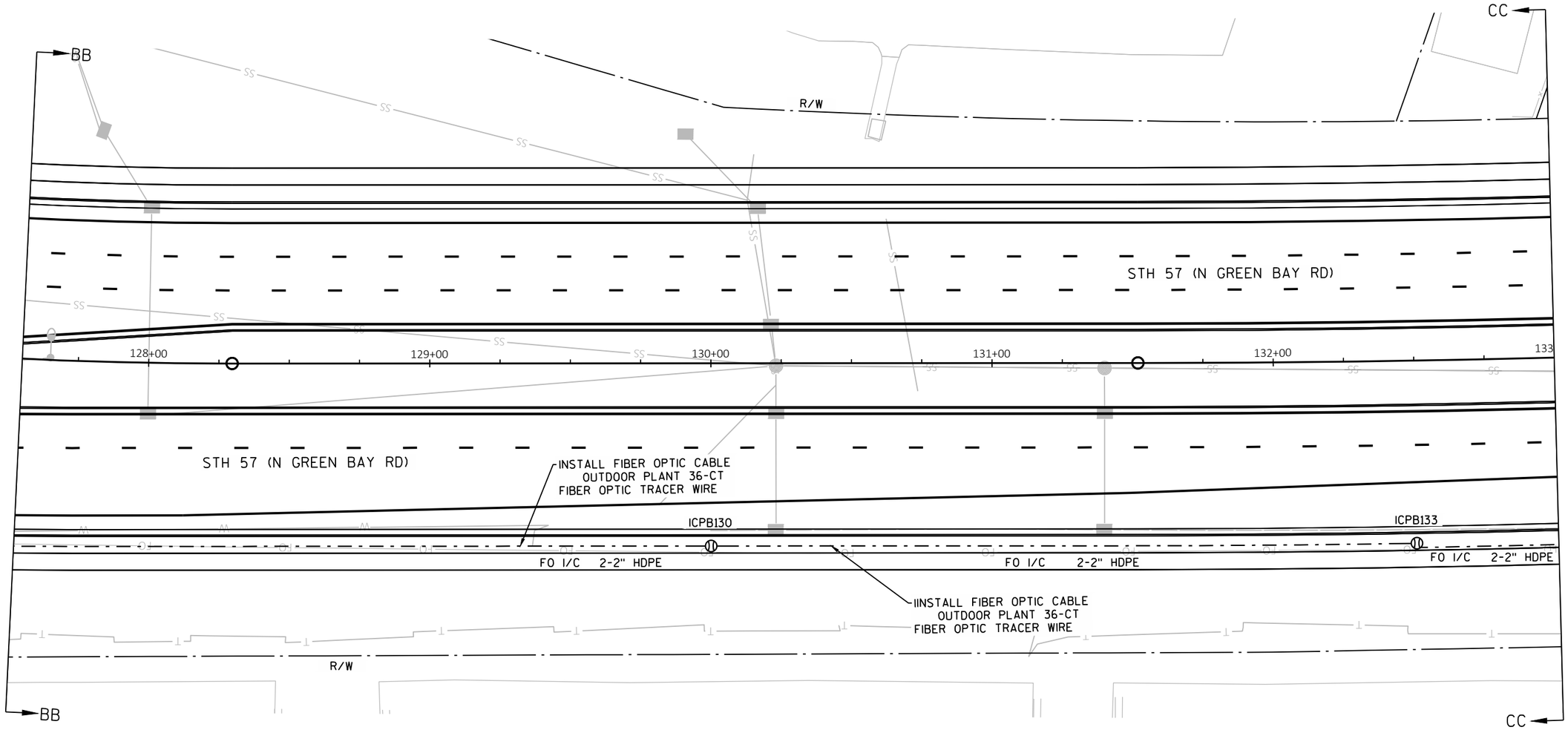
REGION CONTACT: JOYCE MURPHY
DESIGNED BY: HNTB
REVISED BY:

PROJECT NO: 2270-04-70	HWY: STH 57/100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL INTERCONNECT PLAN	SHEET 399	E

FILE NAME : I:\64008_STH_57\22700400\SIG\COM\2270-04-00_COM.DWG
LAYOUT NAME - STH57_COM_1

PLOT DATE : 6/9/2021 1:53 PM PLOT BY : ALICIA DOUGHERTY PLOT NAME : PLOT SCALE : 1 IN:40 FT

2



TRAFFIC CONTROL INTERCONNECT
STH 57 AND STH 100
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY
SIGNAL NO. S40-1163, S40-1176, S40-1193
S40-1227, S40-1473

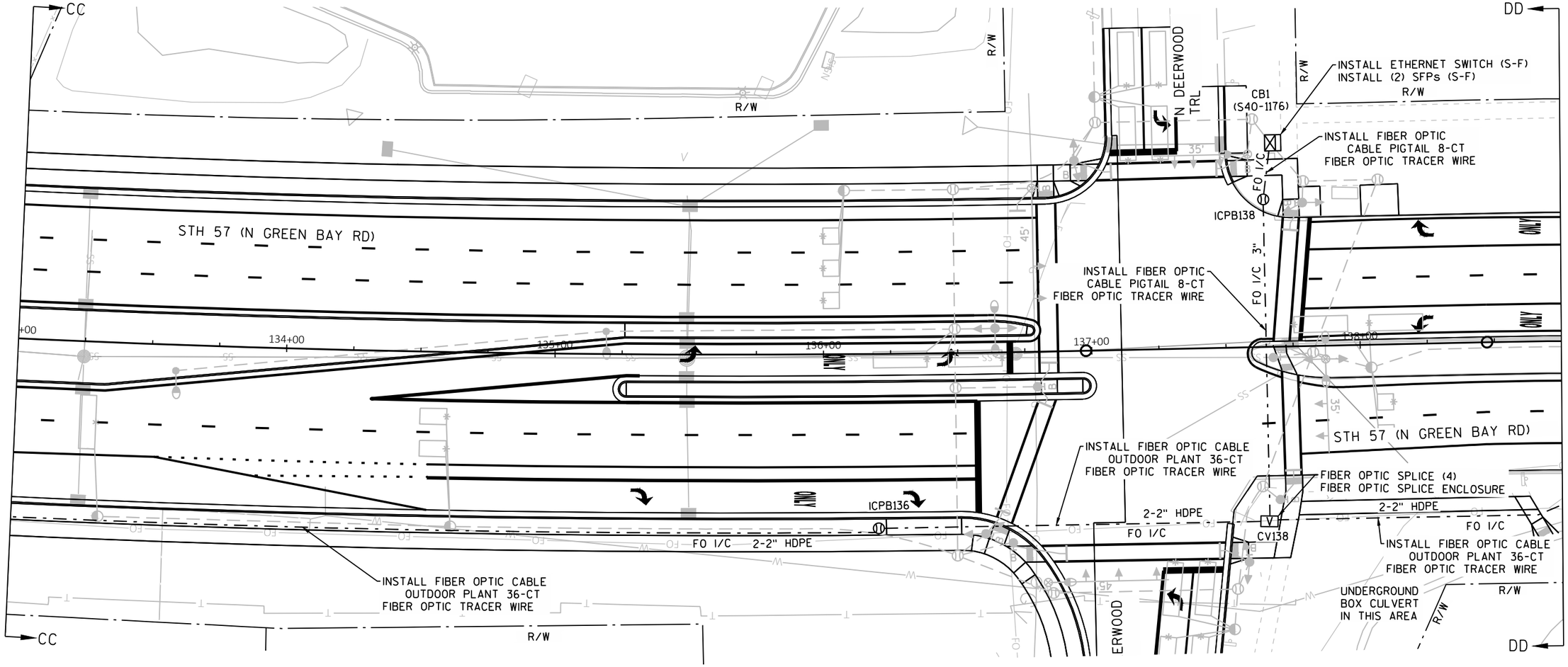
REGION CONTACT: JOYCE MURPHY
DESIGNED BY: HNTB
REVISED BY:

PROJECT NO: 2270-04-70	HWY: STH 57/100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL INTERCONNECT PLAN	SHEET 400	E

FILE NAME : I:\64008_STH_57\22700400\SIG\COM\2270-04-00_COM.DWG
LAYOUT NAME - STH57_COM_2

PLOT DATE : 6/9/2021 1:53 PM PLOT BY : ALICIA DOUGHERTY PLOT NAME : PLOT SCALE : 1 IN:40 FT

2



TRAFFIC CONTROL INTERCONNECT
STH 57 AND STH 100
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY
SIGNAL NO. S40-1163, S40-1176, S40-1193
S40-1227, S40-1473

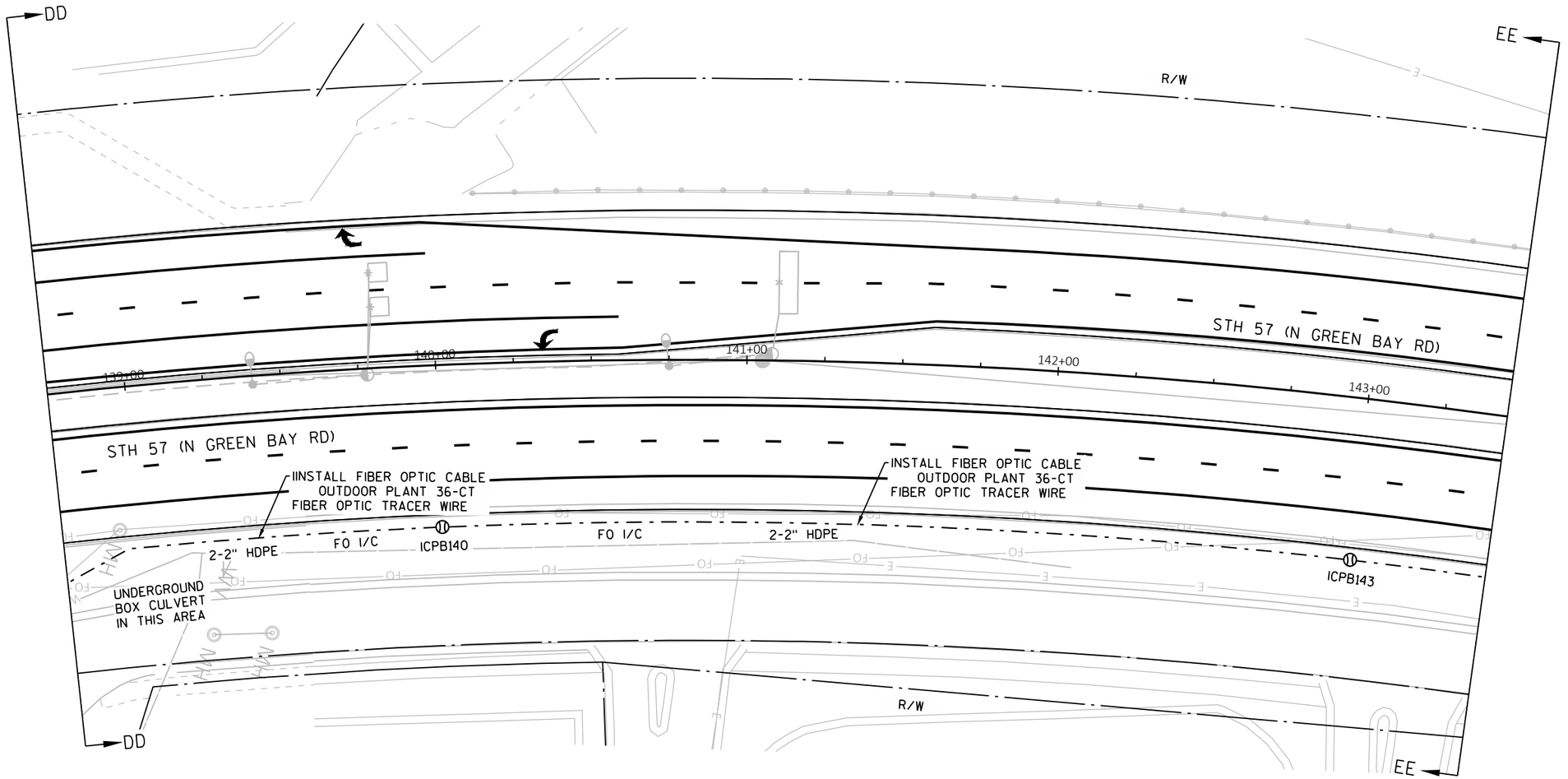
REGION CONTACT: JOYCE MURPHY
DESIGNED BY: HNTB
REVISED BY:

PROJECT NO: 2270-04-70	HWY: STH 57/100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL INTERCONNECT PLAN	SHEET 401	E

FILE NAME : I:\64008_STH_57\22700400\SIG\COM\2270-04-00_COM.DWG
LAYOUT NAME - STH57_COM_3

PLOT DATE : 6/9/2021 1:53 PM PLOT BY : ALICIA DOUGHERTY PLOT NAME : PLOT SCALE : 1 IN:40 FT

2



TRAFFIC CONTROL INTERCONNECT
STH 57 AND STH 100
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY
SIGNAL NO. S40-1163, S40-1176, S40-1193
S40-1227, S40-1473

REGION CONTACT: JOYCE MURPHY
DESIGNED BY: HNTB
REVISED BY:

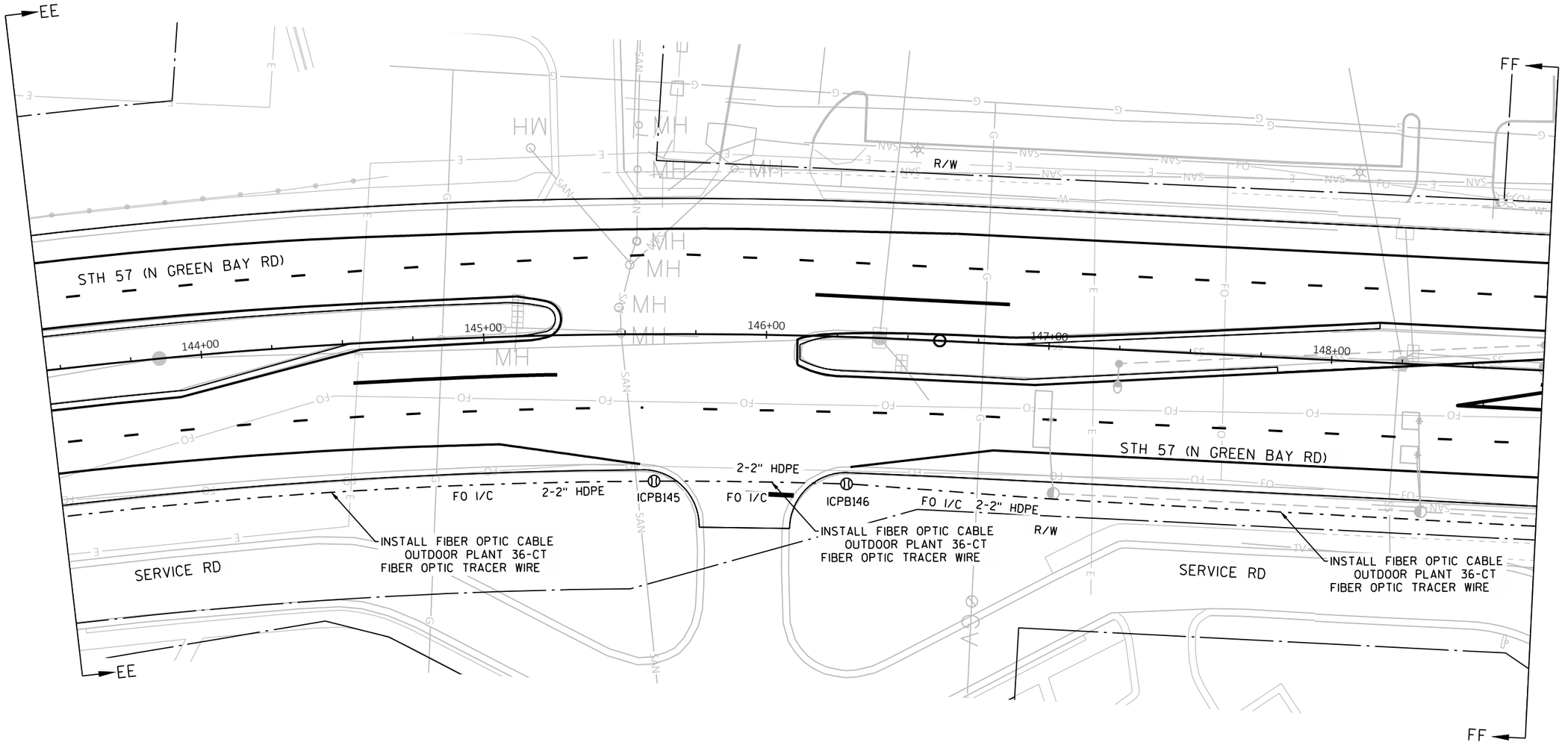
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FILE NAME : I:\64008_STH_57\22700400\SIG\COM\2270-04-00_COM.DWG
LAYOUT NAME - STH57_COM_4

PLOT DATE : 6/9/2021 1:53 PM PLOT BY : ALICIA DOUGHERTY PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

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TRAFFIC CONTROL INTERCONNECT
STH 57 AND STH 100
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY
SIGNAL NO. S40-1163, S40-1176, S40-1193
S40-1227, S40-1473

REGION CONTACT: JOYCE MURPHY
DESIGNED BY: HNTB
REVISED BY:

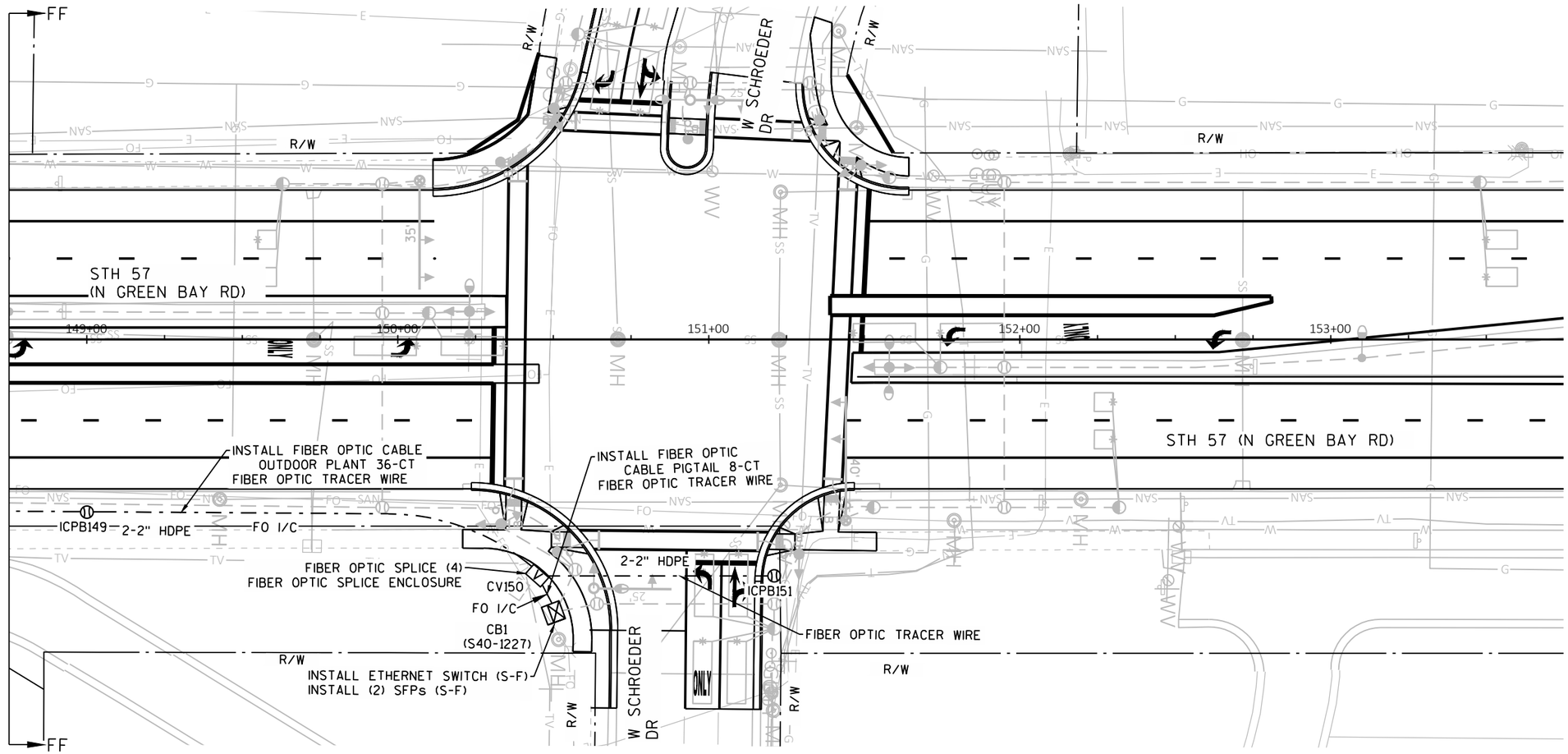
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FILE NAME : I:\64008_STH_57\22700400\SIG\COM\2270-04-00_COM.DWG
LAYOUT NAME - STH57_COM_5

PLOT DATE : 6/9/2021 1:54 PM PLOT BY : ALICIA DOUGHERTY PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N



TRAFFIC CONTROL INTERCONNECT
STH 57 AND STH 100
VILLAGE OF BROWN DEER
MILWAUKEE COUNTY
SIGNAL NO. S40-1163, S40-1176, S40-1193
S40-1227, S40-1473

REGION CONTACT: JOYCE MURPHY
DESIGNED BY: HNTB
REVISED BY:

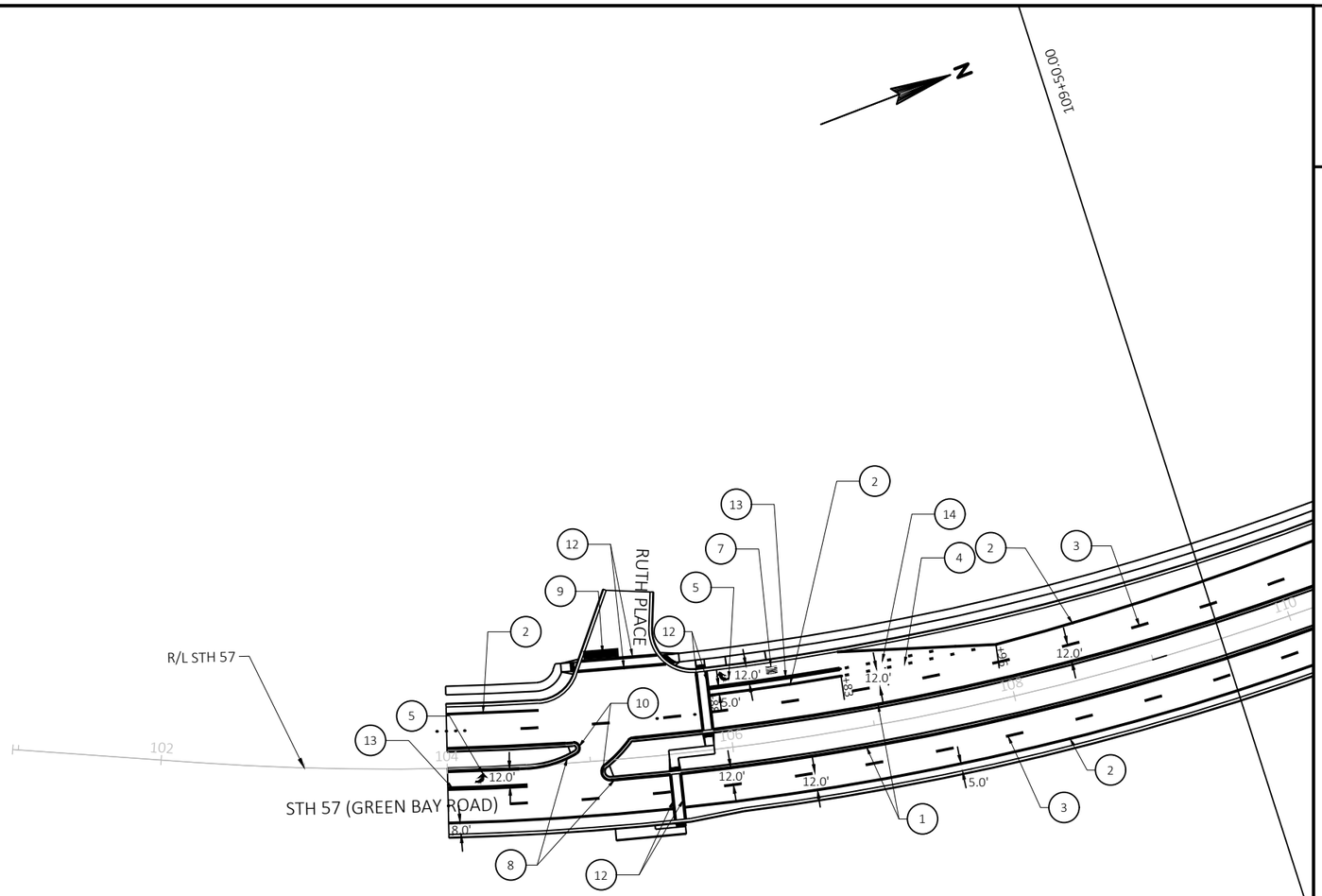
PAGE 13 OF 13

PROJECT NO: 2270-04-70	HWY: STH 57/100	COUNTY: MILWAUKEE	TRAFFIC SIGNAL INTERCONNECT PLAN	SHEET 404	E

2

LEGEND

1. MARKING LINE EPOXY 4-INCH, (YELLOW)
2. MARKING LINE EPOXY 4-INCH, (WHITE)
3. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)
4. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
5. MARKING ARROWS EPOXY, TYPE 2
6. MARKING ARROWS EPOXY, TYPE 5
7. MARKING WORDS EPOXY
8. MARKING CURB EPOXY
9. MARKING STOP LINE EPOXY 18-INCH
10. MARKING ISLAND NOSE EPOXY
11. MARKING DIAGONAL EPOXY 12-INCH
12. MARKING CROSSWALK EPOXY TRANSVERSE 6-INCH
13. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE)
14. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
15. MARKING ARROWS EPOXY, TYPE 3
16. MARKING ARROWS EPOXY, TYPE 1
17. MARKING RAILROAD CROSSING EPOXY
18. MARKING LINE GROOVED WET REF EPOXY 4-INCH, (WHITE)
19. MARKING LINE EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)
20. MARKING LINE EPOXY 4-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
21. MARKING LINE EPOXY 8-INCH, (WHITE)
22. MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH
27. MARKING LINE EPOXY 8-INCH (DOT PATTERN WHITE) (3 FT LINE 9FT SKIP)
28. TEMPORARY MARKING LINE PAINT 4-INCH, (WHITE)
    MARKING LINE GROOVED WET REF EPOXY 4-INCH, (WHITE)
29. MARKING LINE SAME DAY EPOXY 4-INCH, (YELLOW)
30. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (DOT PATTERN WHITE) (2 FT LINE 6FT SKIP)

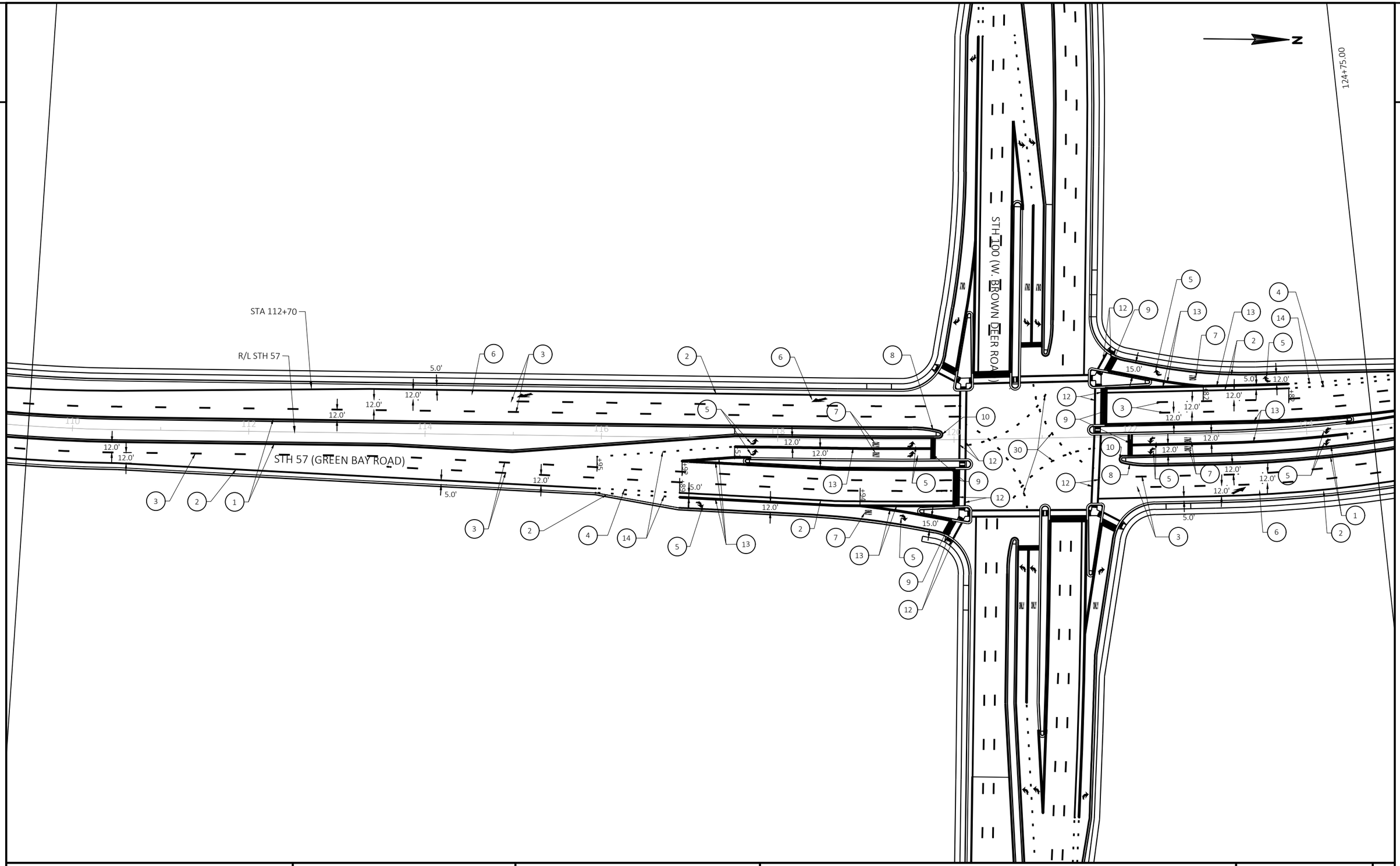


2

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PAVEMENT MARKING	SHEET 406	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 024501

PLOT DATE : 4/21/2021 5:06 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:100 FT

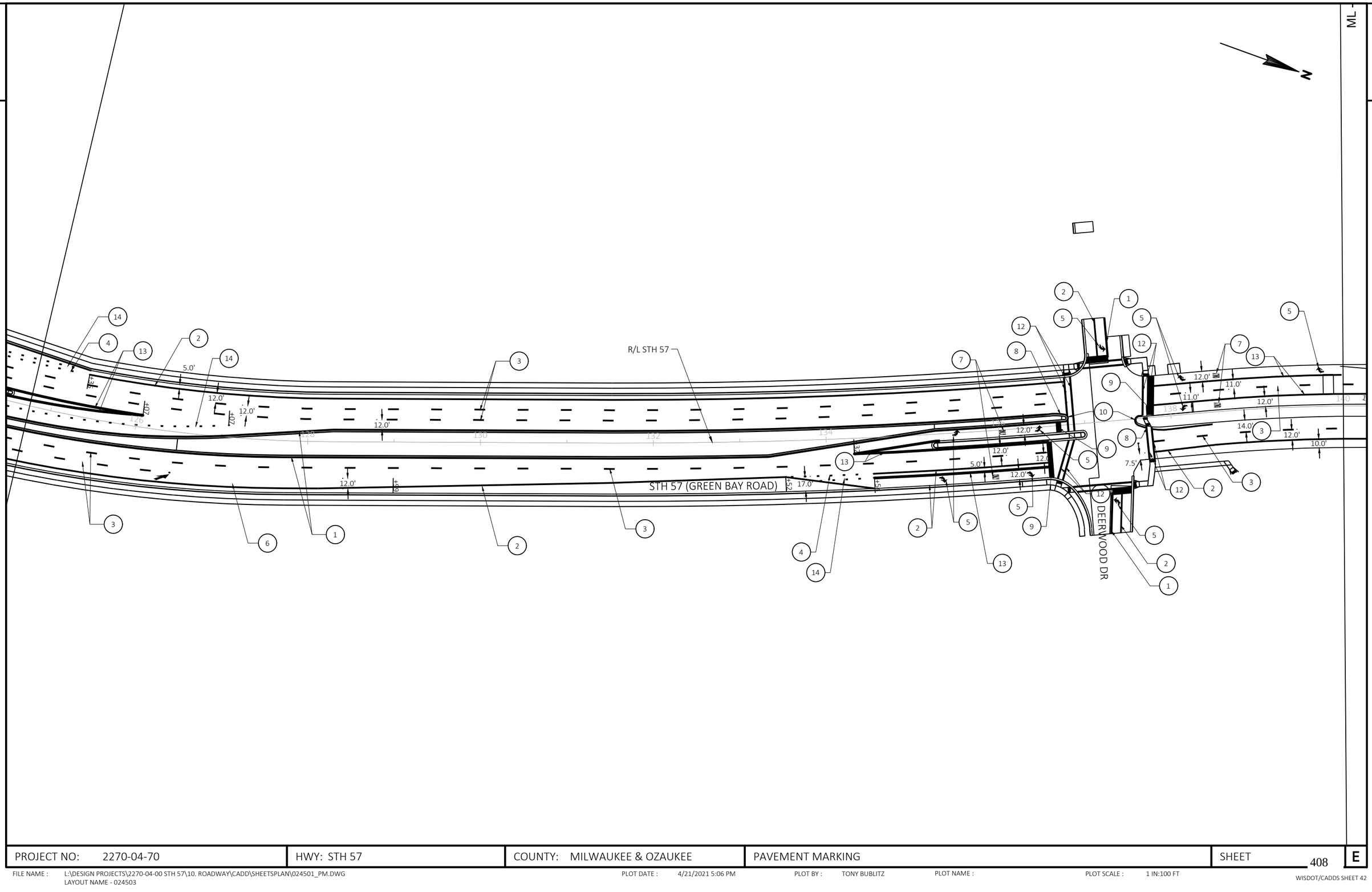


2

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PAVEMENT MARKING	SHEET 407	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 024502
PLOT DATE : 4/21/2021 5:06 PM
PLOT BY : TONY BUBLITZ
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2



PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PAVEMENT MARKING	SHEET 408	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 024503

PLOT DATE : 4/21/2021 5:06 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

STH 57 (GREEN BAY ROAD)

SCHROEDER DR

MATCHLINE 140+00.00

140+58.95
141+56.63
141+60.44
144+53.06
145+04.06
145+25.70
145+55.08
146+16.90
146+31.27
146+82.06
146+85.47
148+45.27
148+74.52
150+11.77
152+62.52
152+81.05

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PAVEMENT MARKING	SHEET 409	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\024501_PM.DWG
LAYOUT NAME - 024502

PLOT DATE : 4/6/2021 3:21 PM PLOT BY : JOHNATHAN OLSON PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

MATCHLINE 170+50.00

MATCHLINE 155+25.00

DEER RUN DR

DONGES LN.

POOL

A/C

STH 57

STH 57 (GREEN BAY ROAD)

156+51.02

157+68.90

157+75.66

158+42.13

158+51.85

159+17.29

159+18.77

159+96.78

159+98.34

161+30.87

169+17.80

169+63.64

156

158

160

162

164

166

168

170

7.7'

12.0'

12.0'

24.3'

10.1'

9.8'

12.0'

22.0'

SIGN

W

MH

INL

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PAVEMENT MARKING	SHEET 410	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\024501_PM.DWG
LAYOUT NAME - 024503

PLOT DATE : 4/6/2021 3:21 PM PLOT BY : JOHNATHAN OLSON PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

MATCHLINE 185+75.00

MATCHLINE 170+50.00

HIAWATHA DR.

CEDARBURG ROAD

COUNTY LINE ROAD

171+65.59

172+67.95

170+69.22

172+09.83

173+79.23

174+24.73

176+77.05

176+50.00

177+27.80

177+79.82

178+97.68

178+29.82

172+61.97

170+62.97

172+60.98

DOUBLE/YELLOW

SIGN

RAMP

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PAVEMENT MARKING	SHEET 411	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\024501_PM.DWG
LAYOUT NAME - 024504

PLOT DATE : 4/6/2021 3:21 PM PLOT BY : JOHNATHAN OLSON PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

MATCHLINE 201+00.00

MATCHLINE 185+75.00

WILLOW RD.

ELMDALE RD.

CEDARBURG ROAD

189+45.67

189+95.67

190+50.71

191+00.71

196+26.96

196+93.06

197+42.98

195+76.96

29 DOUBLE/YELLOW

28

5.0'

12.0'

12.0'

5.0'

186 188 190 192 194 196 198 200

STH 57

POOL

INL

SIGN

MH

W

BLEACHERS

ATHLETIC FIELD

ATHLETIC FIELD

CEMETERY

CEMETERY

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PAVEMENT MARKING	SHEET 412	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\024501_PM.DWG
LAYOUT NAME - 024505

PLOT DATE : 4/6/2021 3:22 PM PLOT BY : JOHNATHAN OLSON PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

MATCHLINE 216+25.00

MATCHLINE 201+00.00

KATHLEEN LN.

WESTFIELD RD.

WESTFIELD RD.

205+71.28

206+21.28

206+87.60

207+37.60

213+04.30

212+54.30

213+71.28

214+21.39

29 DOUBLE/YELLOW

28

9

202 204 206 208 210 212 214 216

12.0'

5.0'

12.0'

5.0'

CEDARBURG ROAD

STH 57

SIGN

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PAVEMENT MARKING	SHEET 413	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\024501_PM.DWG
LAYOUT NAME - 024506

PLOT DATE : 4/6/2021 3:22 PM PLOT BY : JOHNATHAN OLSON PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

MATCHLINE 231+50.00

MATCHLINE 216+25.00

PT: 217+18.68

PI: 229+72.15

CEDARBURG ROAD

DONGE BAY ROAD

DOUBLE/YELLOW

SIGN

FILLER CAPS

CANOPY

MH

PLAYGROUND

226+65.30

227+73.91

228+02.80

228+52.49

229+53.68

229+77.39

230+52.52

51+11.85

51+66.27

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PAVEMENT MARKING	SHEET 414	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\024501_PM.DWG
LAYOUT NAME - 024507

PLOT DATE : 4/6/2021 3:22 PM PLOT BY : JOHNATHAN OLSON PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

MATCHLINE 246+75.00

MATCHLINE 231+50.00

47+51.39

47+70.33

21.0'

11.0'

WALLS

233+07.27

233+14.01

234+97.33

235+81.42

236+16.91

236+82.90

239+40.99

239+92.35

240+40.96

241+98.85

242+98.85

239+92.48

BAYBERRY PKWY.

SIGN

DOUBLE/YELLOW

CEDARBURG ROAD

POST

4.0'

12.0'

5.0'

11.0'

232

234

236

238

240

242

244

246

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PAVEMENT MARKING	SHEET 415	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\024501_PM.DWG
LAYOUT NAME - 024508

PLOT DATE : 4/6/2021 3:22 PM PLOT BY : JOHNATHAN OLSON PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

MATCHLINE 262+00.00

SHERWOOD

SHERWOOD DR.

260+40.53

260+90.53

261+60.27

9

29 DOUBLE/YELLOW

28

5.0'

12.0'

12.0'

5.0'

248 250 STH 57 252 254 256 258 260 262

CEDARBURG ROAD

W

MATCHLINE 246+75.00

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PAVEMENT MARKING	SHEET 416	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\024501_PM.DWG
LAYOUT NAME - 024509

PLOT DATE : 4/6/2021 3:23 PM PLOT BY : JOHNATHAN OLSON PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

MATCHLINE 277+25.00

MATCHLINE 262+00.00

SHERWOOD DR.

262+10.27

262 264 266 268 270 272 274 276

5.0'
12.0'
12.0'
5.0'

29 DOUBLE/YELLOW

28 28 28

CEDARBURG ROAD

STH 57

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PAVEMENT MARKING	SHEET 417	E

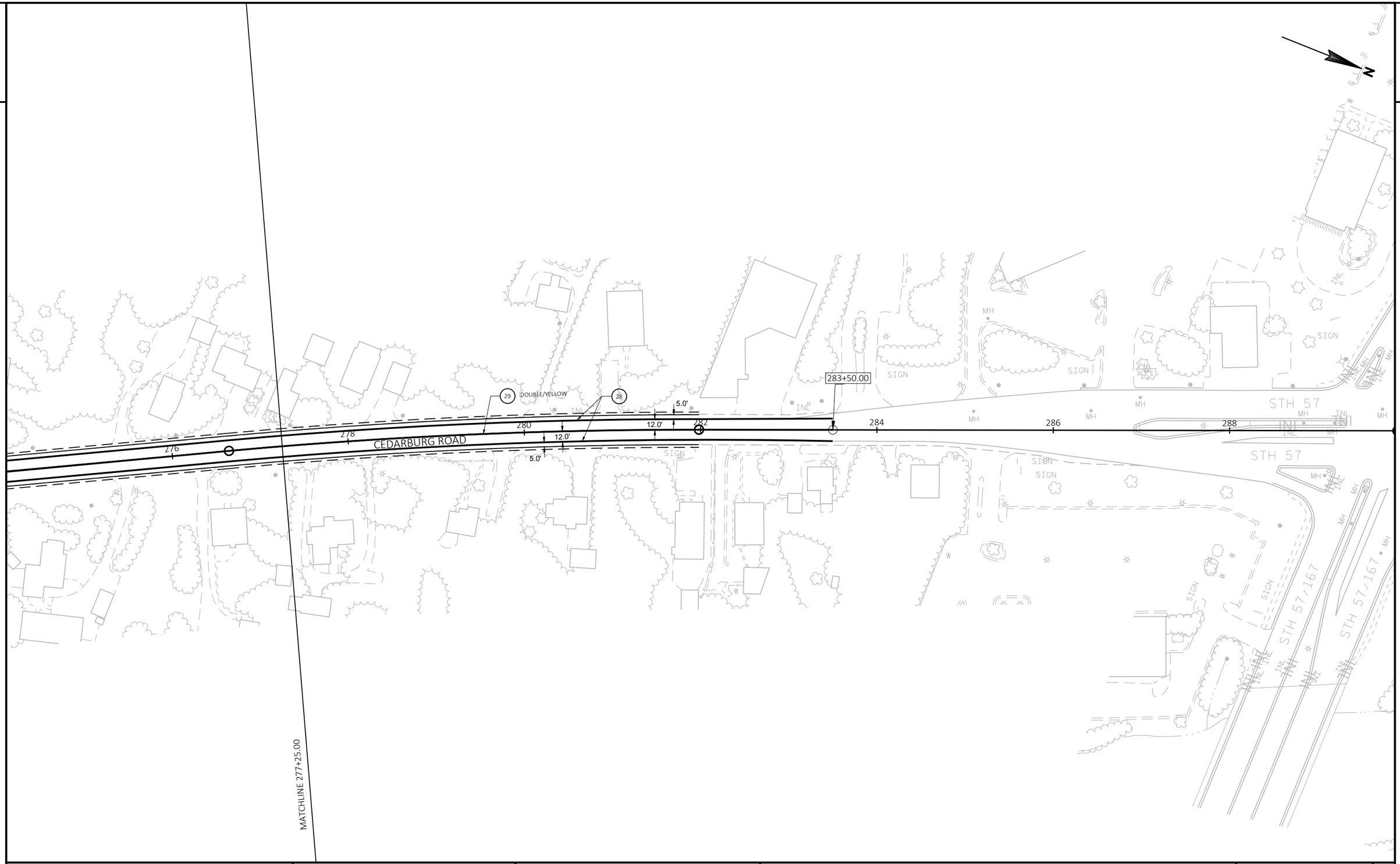
FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\024501_PM.DWG
LAYOUT NAME - 024510

PLOT DATE : 4/6/2021 3:23 PM PLOT BY : JOHNATHAN OLSON PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2



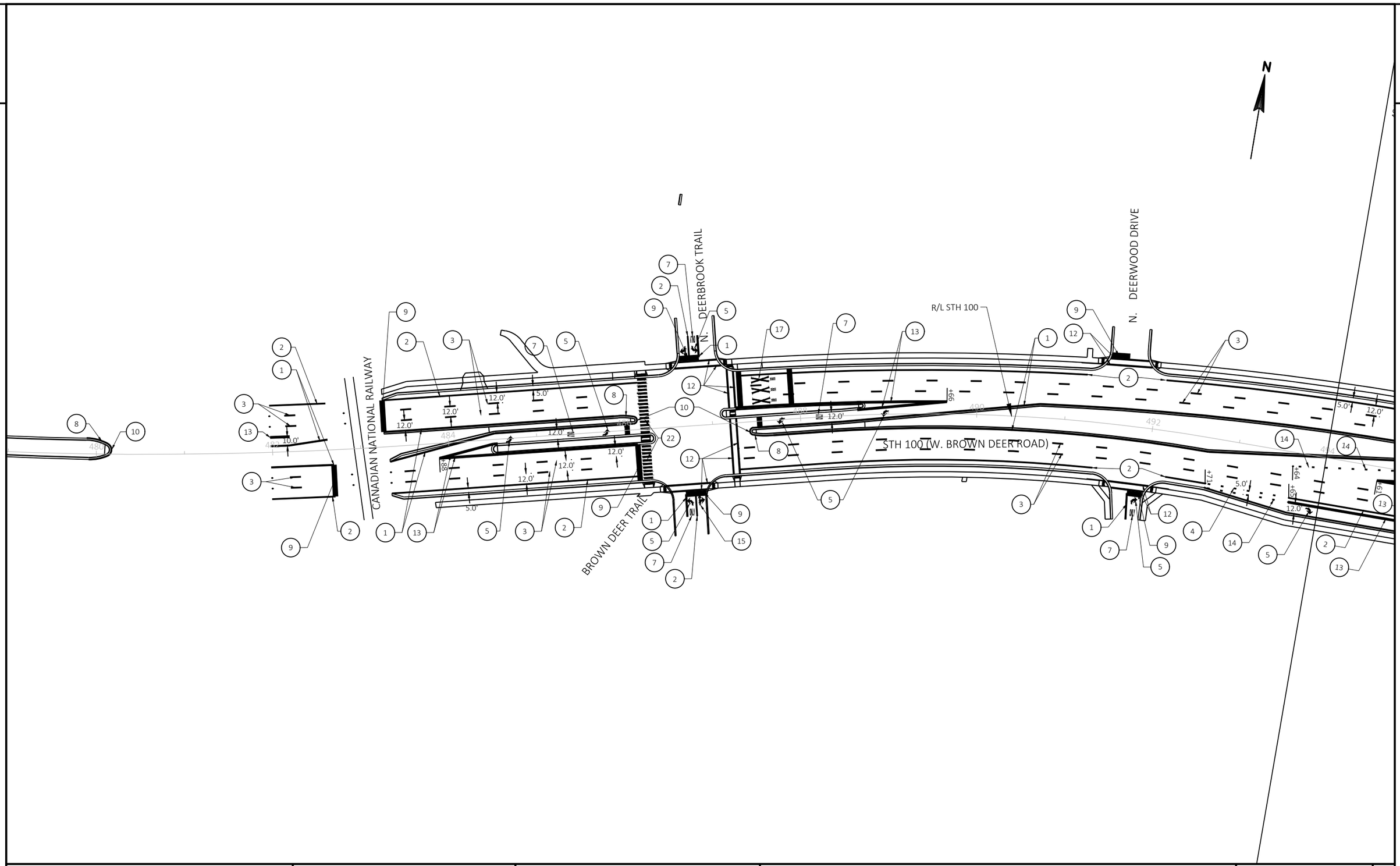
PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PAVEMENT MARKING	SHEET 418	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\024501_PM.DWG
LAYOUT NAME - 024511

PLOT DATE : 4/6/2021 3:23 PM PLOT BY : JOHNATHAN OLSON PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

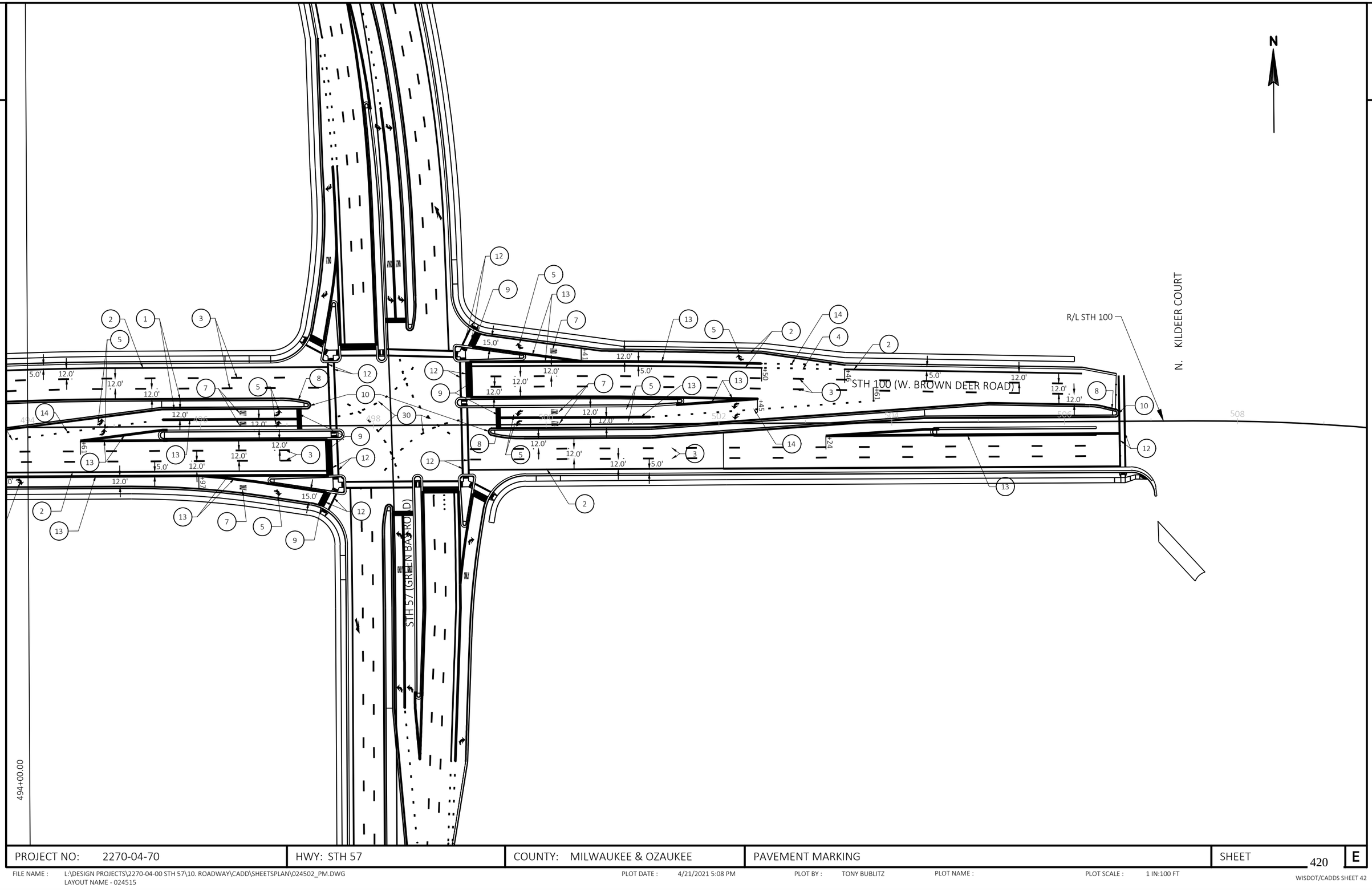
2



PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PAVEMENT MARKING	SHEET 419	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\024502_PM.DWG
LAYOUT NAME - 024514

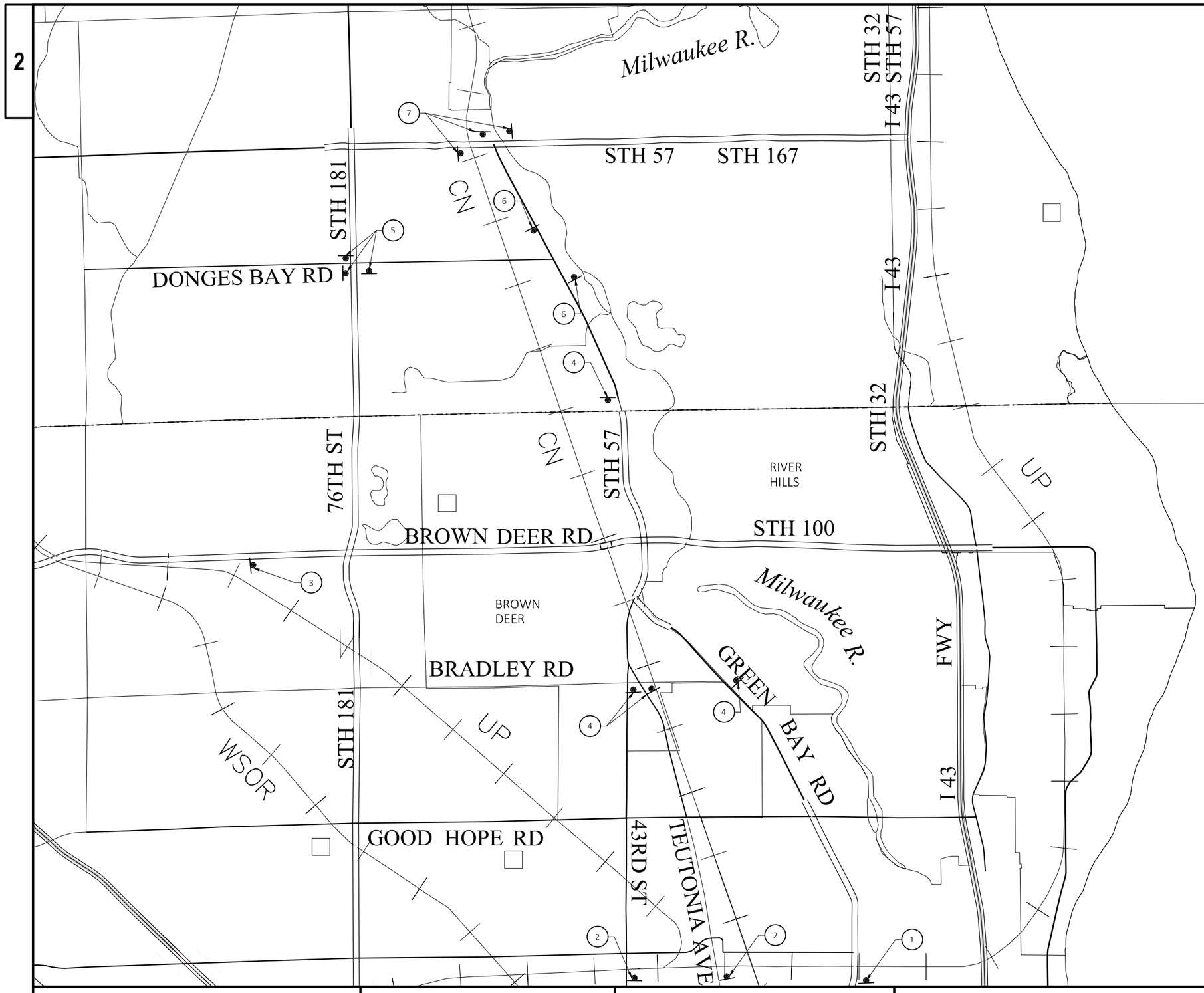
PLOT DATE : 7/20/2021 2:04 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:100 FT



PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PAVEMENT MARKING	SHEET 420	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\024502_PM.DWG
LAYOUT NAME - 024515

PLOT DATE : 4/21/2021 5:08 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:100 FT



FIXED MESSAGE SIGNS*

1. HWY 57 CLOSED 2.5 MILES AHEAD
2. TEUTONIA AVE CLOSED 2.5 MILES AHEAD
3. HWY 57 SOUTH CLOSED 2 MILES AHEAD
4. HWY 57 CLOSED AHEAD
5. DONGES BAY RD CLOSED AT HWY 57
6. DONGES BAY RD WEST CLOSED AHEAD
7. HWY 57 SOUTH CLOSED 3 MILES AHEAD

*NOTE: ALL SIGNS TO BE INSTALLED IN STAGE 3 AND WILL REMAIN THROUGH STAGE 5.

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	TRAFFIC CONTROL - FIXED MESSAGE SIGNS	SHEET 421	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\025003_TC.DWG
LAYOUT NAME - 025003-tc

PLOT DATE : 4/20/2021 1:15 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1IN:0.75 MI

2

2

N

Milwaukee R.

STH 32
STH 57
I 43

STH 57 STH 167

STH 181

CN

DONGES BAY RD

COUNTY
LINE

STH 32

I 43

76TH ST

CN

STH 57

RIVER
HILLS

UP

7

8

MB

MB

9

MB

STH 100

BROWN DEER RD

MB

9

BROWN
DEER

Milwaukee R.

BRADLEY RD

GREEN BAY RD

FWY

I 43

STH 181

UP

WSOR

GOOD HOPE RD

43RD ST

TEUTONIA AVE

PORTABLE CHANGEABLE MESSAGE SIGNS

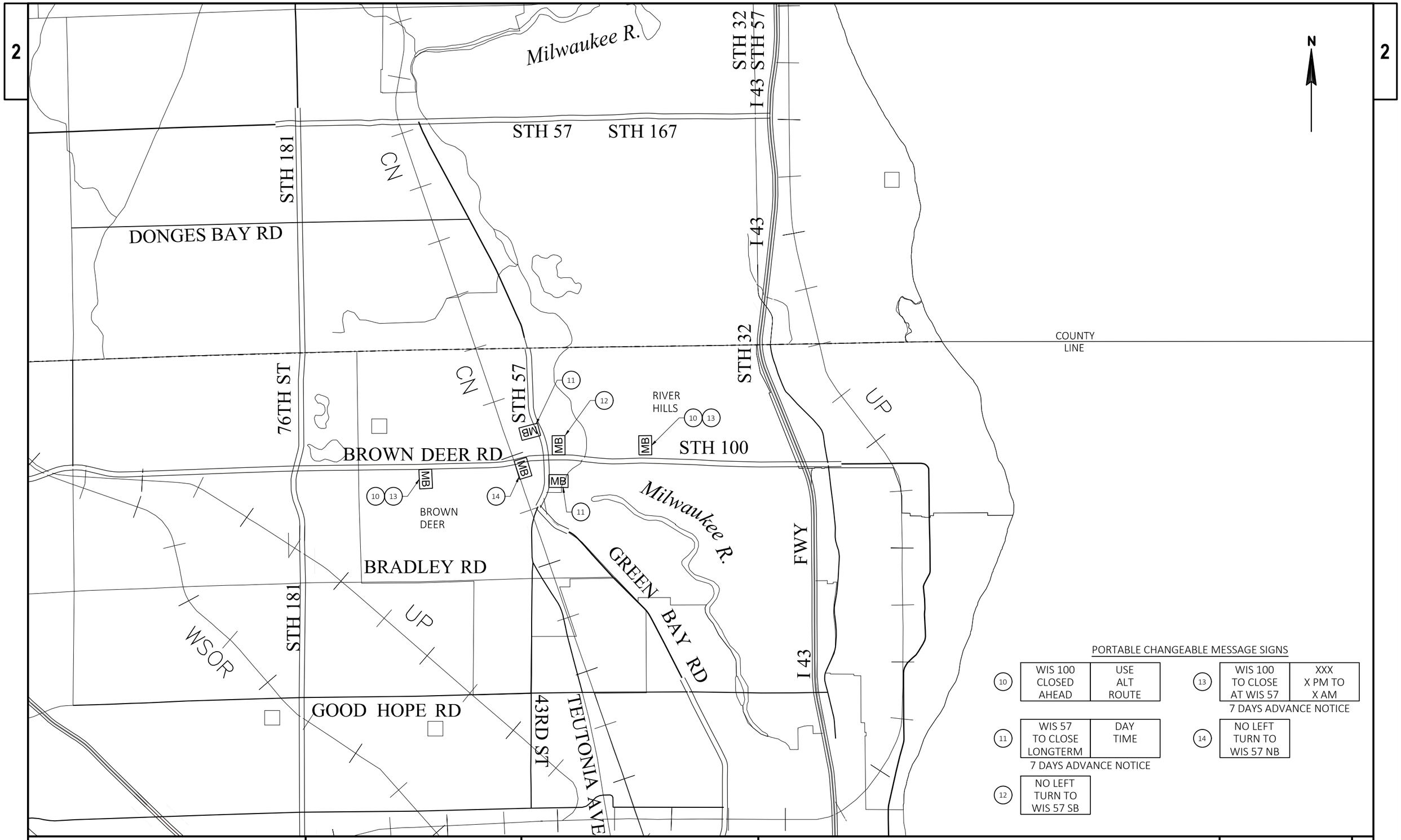
7	RAMP CLOSED	USE ALT ROUTE
8	RAMP TO CLOSE LONGTERM	DAY TIME
	7 DAYS ADVANCE NOTICE	
9	WIS 100 LANE CLOSURES	BEGIN XXX
	7 DAYS ADVANCE NOTICE	

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	TRAFFIC CONTROL PCMS - STAGE 1	SHEET 422	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\025006_TC.DWG
LAYOUT NAME - STAGE 1

PLOT DATE : 4/20/2021 1:18 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1IN:0.75 MI

WISDOT/CADDS SHEET 42



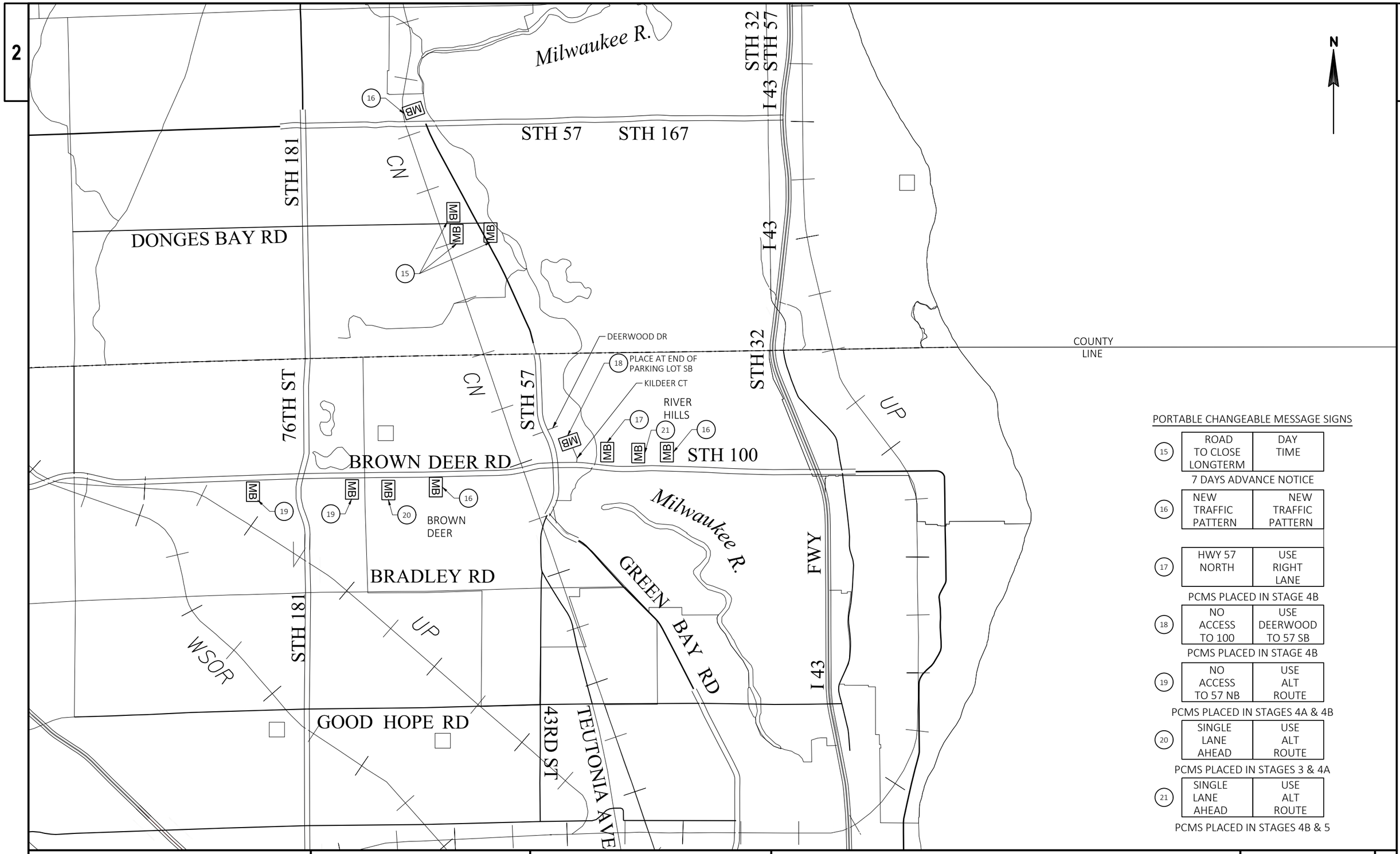
PORTABLE CHANGEABLE MESSAGE SIGNS

10	WIS 100 CLOSED AHEAD	USE ALT ROUTE	13	WIS 100 TO CLOSE AT WIS 57	XXX X PM TO X AM
				7 DAYS ADVANCE NOTICE	
11	WIS 57 TO CLOSE LONGTERM	DAY TIME	14	NO LEFT TURN TO WIS 57 NB	
	7 DAYS ADVANCE NOTICE				
12	NO LEFT TURN TO WIS 57 SB				

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	TRAFFIC CONTROL PCMS - STAGE 2	SHEET 423	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\025007_TC.DWG
LAYOUT NAME - STAGE 2

PLOT DATE : 4/20/2021 1:20 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1IN:0.75 MI



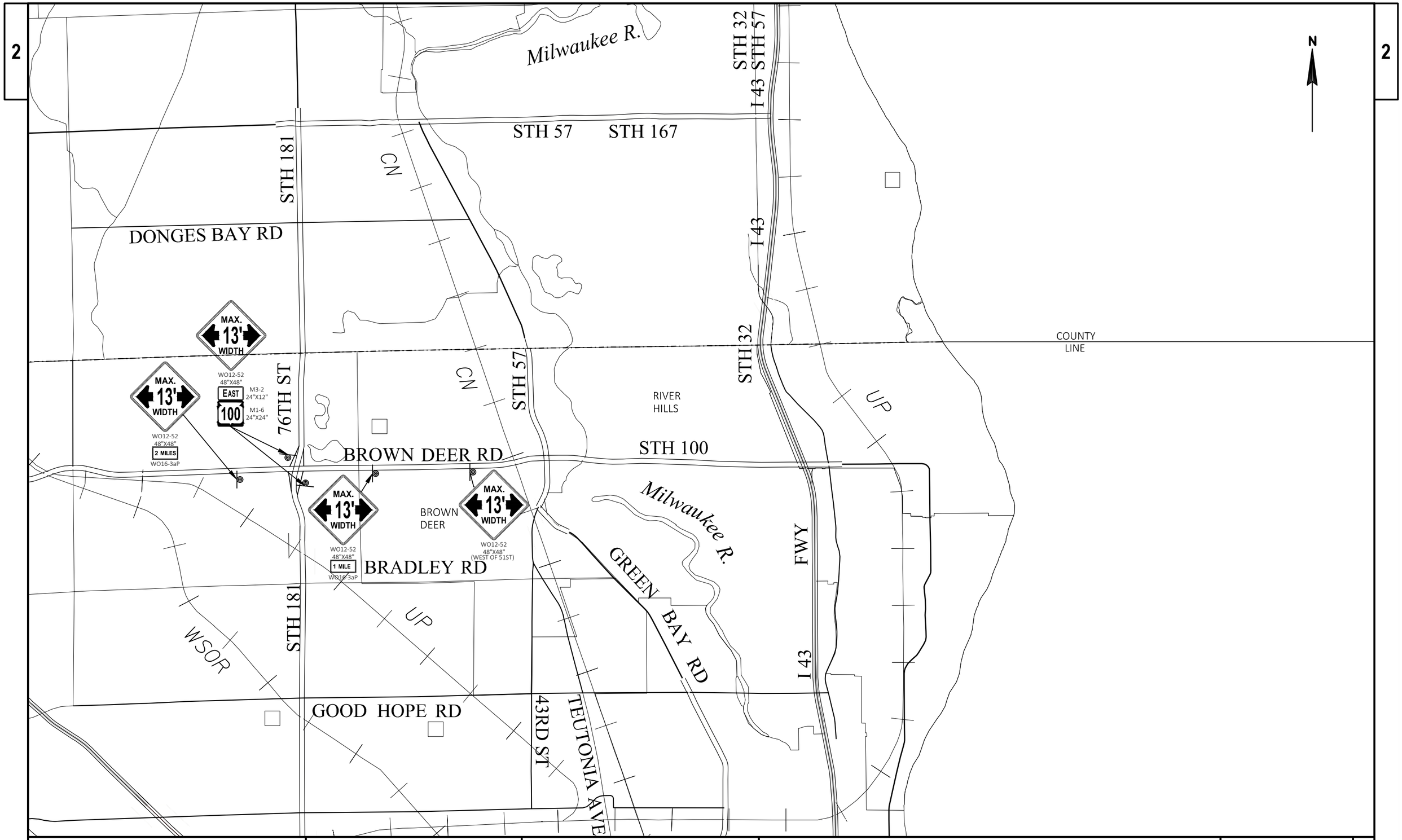
PORTABLE CHANGEABLE MESSAGE SIGNS

15	ROAD TO CLOSE LONGTERM	DAY TIME
	7 DAYS ADVANCE NOTICE	
16	NEW TRAFFIC PATTERN	NEW TRAFFIC PATTERN
17	HWY 57 NORTH	USE RIGHT LANE
	PCMS PLACED IN STAGE 4B	
18	NO ACCESS TO 100	USE DEERWOOD TO 57 SB
	PCMS PLACED IN STAGE 4B	
19	NO ACCESS TO 57 NB	USE ALT ROUTE
	PCMS PLACED IN STAGES 4A & 4B	
20	SINGLE LANE AHEAD	USE ALT ROUTE
	PCMS PLACED IN STAGES 3 & 4A	
21	SINGLE LANE AHEAD	USE ALT ROUTE
	PCMS PLACED IN STAGES 4B & 5	

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	TRAFFIC CONTROL PCMS - STAGES 3-5	SHEET 424	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\025008_TC.DWG
LAYOUT NAME - STAGES 3-5

PLOT DATE : 7/19/2021 4:06 PM PLOT BY : CIERRA SMITH PLOT NAME : PLOT SCALE : 1IN:0.75 MI



PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	TRAFFIC CONTROL MAX WIDTH SIGNING - STAGES 3-4A	SHEET 425	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\025009_TC.DWG
LAYOUT NAME - STAGES 3-4A

PLOT DATE : 7/22/2021 4:02 PM PLOT BY : JOE MAAS PLOT NAME : PLOT SCALE : 1IN:0.75 MI

WISDOT/CADDS SHEET 42

2

2

N

Milwaukee R.

STH 32 STH 57

I 43

STH 57 STH 167

STH 181

CN

DONGES BAY RD

MAX. 13' WIDTH

WO12-52 48"X48"

WEST 100

M3-4 24"X12"

M1-6 24"X24"

MAX. 13' WIDTH

WO12-52 48"X48"

WEST 100

M3-4 24"X12"

M1-6 24"X24"

COUNTY LINE

76TH ST

CN

STH 57

MAX. 13' WIDTH

WO12-52 48"X48" (EAST OF RANGE LINE RD)

RIVER HILLS

STH 32

UP

MAX. 13' WIDTH

WO12-52 48"X48"

2 MILES

WO16-3aP

BROWN DEER RD

STH 100

MAX.

BROWN DEER

Milwaukee R.

MAX. 13' WIDTH

WO12-52 48"X48"

WEST 100

M3-4 24"X12"

M1-6 24"X24"

(EXIT RAMPS)

BRADLEY RD

GREEN BAY RD

FWY

I 43

WSOR

UP

STH 181

GOOD HOPE RD

43RD ST

TEUTONIA AVE

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	TRAFFIC CONTROL MAX WIDTH SIGNING - STAGES 4B-5	SHEET 426	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\025009_TC.DWG
LAYOUT NAME - STAGES 4B-5

PLOT DATE : 7/22/2021 4:02 PM PLOT BY : JOE MAAS PLOT NAME : PLOT SCALE : 1IN:0.75 MI

WISDOT/CADDS SHEET 42

2

2

N

N ARBON DR

STH 100 (W BROWN DEER RD)

470

475

480

485

ROAD CLOSED
R11-2
48"X30"

W01-6
48"X24"

MERGING TAPER 320'

LANE CLOSED
R11-2L
48"X30"

W04-2L

ROAD CLOSED
0.5 MILES AHEAD
LOCAL TRAFFIC ONLY
R11-3
60"X30"

ROAD CLOSED AHEAD
W20-3A

LEFT TWO LANES CLOSED AHEAD
W20-59A

W04-2L

350'

350'

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	TRAFFIC CONTROL - STH 100 NIGHT CLOSURE DETAIL (STAGE 2)	SHEET 427	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\025021_TC.DWG
LAYOUT NAME - 025015_TC

PLOT DATE : 4/19/2021 4:06 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

ROAD CLOSED AHEAD
W20-3A

ROAD CLOSED AHEAD
W20-3A

ROAD CLOSED
R11-2
48"X30"

WO1-6
48"X24"

LANE CLOSED
R11-2L
48"X30"

LANE CLOSED
R11-2L
48"X30"

350'

350'

N DEERBROOK TRAIL

N DEERWOOD DR

ROAD CLOSED
R11-2
48"X30"

WO1-6
48"X24"

LANE CLOSED
R11-2L
48"X30"

STH 57 (N GREEN BAY RD)

SEE STAGE 2 FOR CLOSURE DETAILS

485

490

495

500

STH 100 (W BROWN DEER RD)

MERGING TAPER 320'

RIGHT LANE MUST TURN RIGHT
R3-7R
30"X30"

ROAD CLOSED
R11-2
48"X30"

ROAD CLOSED AHEAD
W20-3A

ROAD CLOSED AHEAD
W20-3A

NB STH 57 CLOSED AT TEUTONIA AVE INTERSECTION UNDER PROJECT ID 2565-07-70. SEE 2565-07-70 TRAFFIC CONTROL DETAILS FOR ADDITIONAL INFORMATION.

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	TRAFFIC CONTROL - STH 100 NIGHT CLOSURE DETAIL (STAGE 2)	SHEET 428	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\025021_TC.DWG
LAYOUT NAME - 025016_TC
PLOT DATE : 4/19/2021 4:06 PM
PLOT BY : TONY BUBLITZ
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

N

DETOUR
M4-9R
30"X24"

ROAD CLOSED
R11-2
48"X30"

LANE CLOSED
R11-2L
48"X30"

ROAD CLOSED 500 FT
W20-3D

W04-2L

BEGIN LEFT TURN LANE
R3-20L
24"X36"

MERGING TAPER 320'

MERGING TAPER 320'

500

505

510

515

STH 100 (W BROWN DEER RD)

LANE CLOSED
R11-2L
48"X30"

NB STH 57 CLOSED AT TEUTONIA AVE INTERSECTION UNDER PROJECT ID 2565-07-70. SEE 2565-07-70 TRAFFIC CONTROL DETAILS FOR ADDITIONAL INFORMATION.

KILDEER CT.

RIVER LN.

MILWAUKEE R.

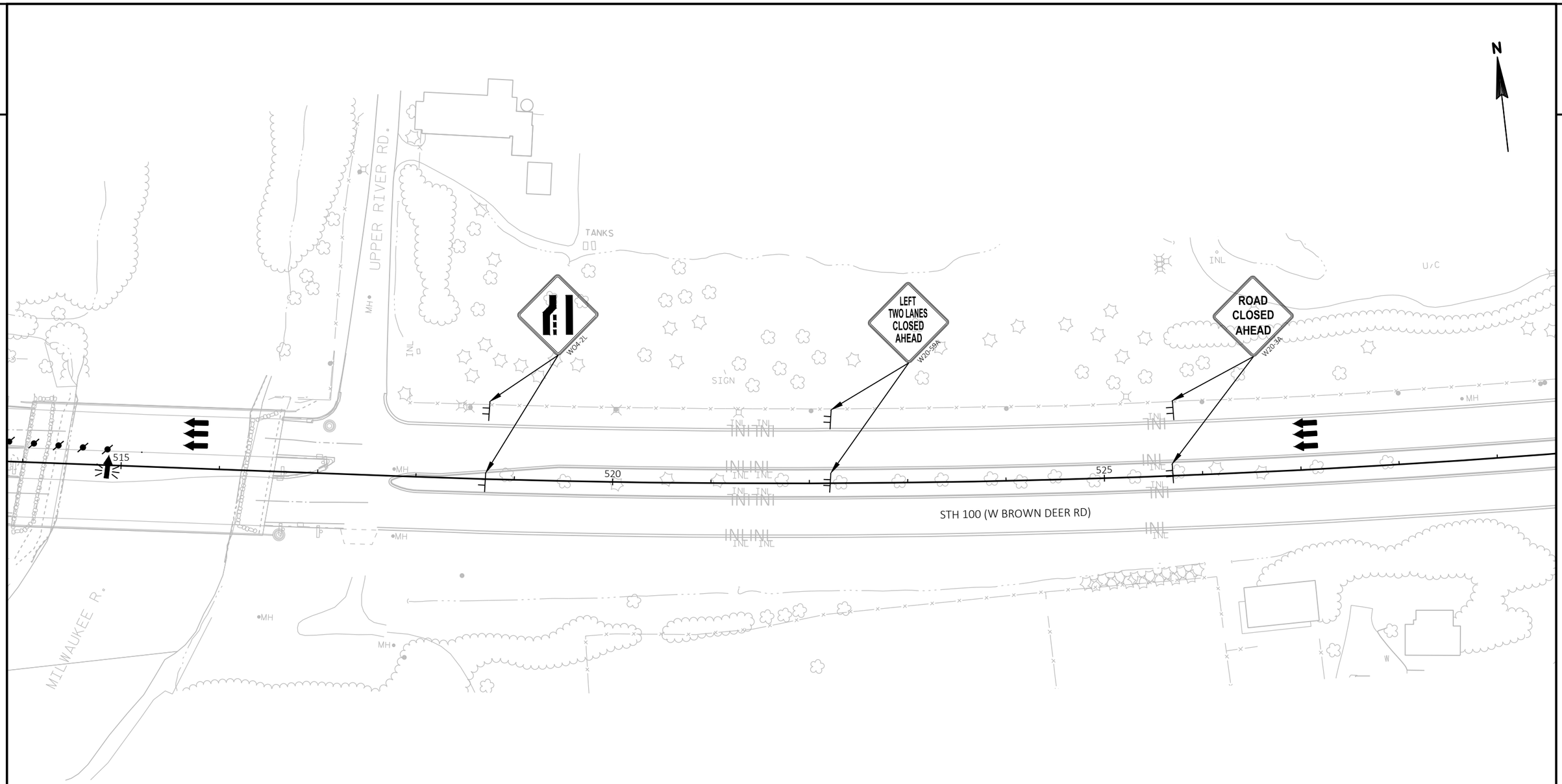
PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	TRAFFIC CONTROL - STH 100 NIGHT CLOSURE DETAIL (STAGE 2)	SHEET 429	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\025021_TC.DWG
LAYOUT NAME - 025017_TC
PLOT DATE : 4/19/2021 4:06 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

2

N



PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	TRAFFIC CONTROL - STH 100 NIGHT CLOSURE DETAIL (STAGE 2)	SHEET 430	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\025021_TC.DWG
LAYOUT NAME - 025018_TC

PLOT DATE : 4/19/2021 4:07 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

CONSTRUCTION
-WIS 57 CONSTRUCTION FROM STA 104+00 TO WIS 100

TRAFFIC
-WIS 57 CLOSED SOUTH OF WIS 100
-RUTH PLACE CLOSED
-MAINTAIN EMERGENCY VEHICLE ACCESS FROM RUTH PLACE TO SB TEUTONIA AVENUE AND SB WIS 57

ROAD CLOSED AHEAD
W20-3A
PLACE SIGN AT 43RD ST

ROAD CLOSED 500 FT
W20-3D

ROAD CLOSED AHEAD
W20-3A
PLACE SIGN AT RIVER LN

RUTH PLACE

N DEERWOOD DR

MAINTAIN ACCESS FOR EMERGENCY VEHICLES FROM RUTH PLACE TO SB TEUTONIA AVE AND SB WIS 57

ROAD CLOSED
R11-2
48"X30"

101+00 102+00 103+00 104+00 105+00 106+00 107+00 108+00 109+00 110+00

STH 57 (GREEN BAY ROAD)

SEE ID 2565-07-70 TRAFFIC CONTROL TO COORDINATE WORK AREAS AND EMERGENCY VEHICLE ACCESS FROM RUTH PLACE TO THE SOUTH

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	TRAFFIC CONTROL - RUTH PLACE DETAIL (STAGES 3-5)	SHEET 431	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\025022_TC.DWG
LAYOUT NAME - 025020

PLOT DATE : 4/20/2021 1:30 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

SIGN COVERING

N

Milwaukee R.

STH 32 STH 57

I 43

STH 57 STH 167

CN

STH 181

76TH ST

STH 57

STH 32

UP

ALTERNATE NORTH INTERSTATE 43

ALTERNATE NORTH INTERSTATE 41

ALTERNATE NORTH INTERSTATE 43

ALTERNATE NORTH INTERSTATE 43

STH 100

BROWN DEER RD

BROWN DEER

ALTERNATE SOUTH INTERSTATE 43 USE LEFT LANE

Milwaukee R.

FWY

BRADLEY RD

GREEN BAY RD

ALTERNATE NORTH INTERSTATE 43

WSOR

UP

STH 181

I 43

GOOD HOPE RD

43RD ST

TEUTONIA AVE

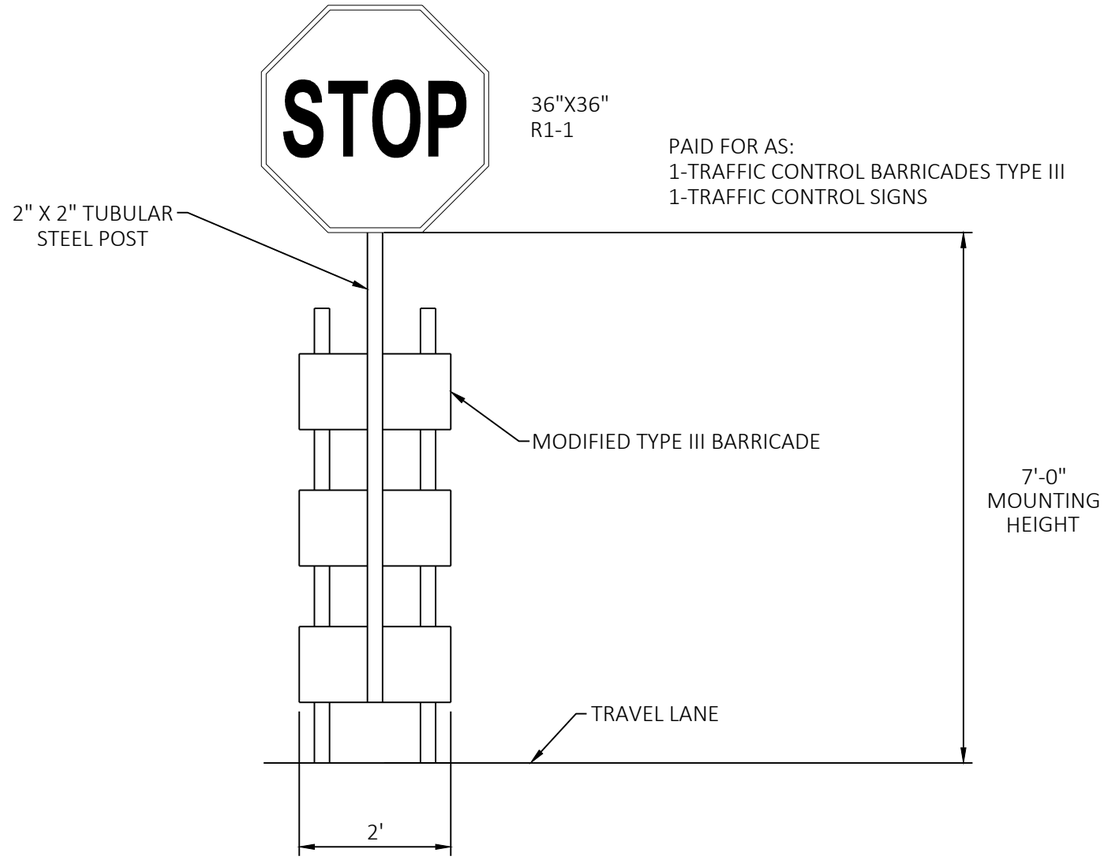
ALTERNATE NORTH INTERSTATE 43

ALTERNATE NORTH INTERSTATE 43

ALTERNATE NORTH INTERSTATE 43

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	TRAFFIC CONTROL - ALTERNATE ROUTE SIGN COVERING	SHEET 432	E

2



TEMPORARY STOP SIGN

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	TRAFFIC CONTROL - TEMPORARY STOP SIGN	SHEET 433	E

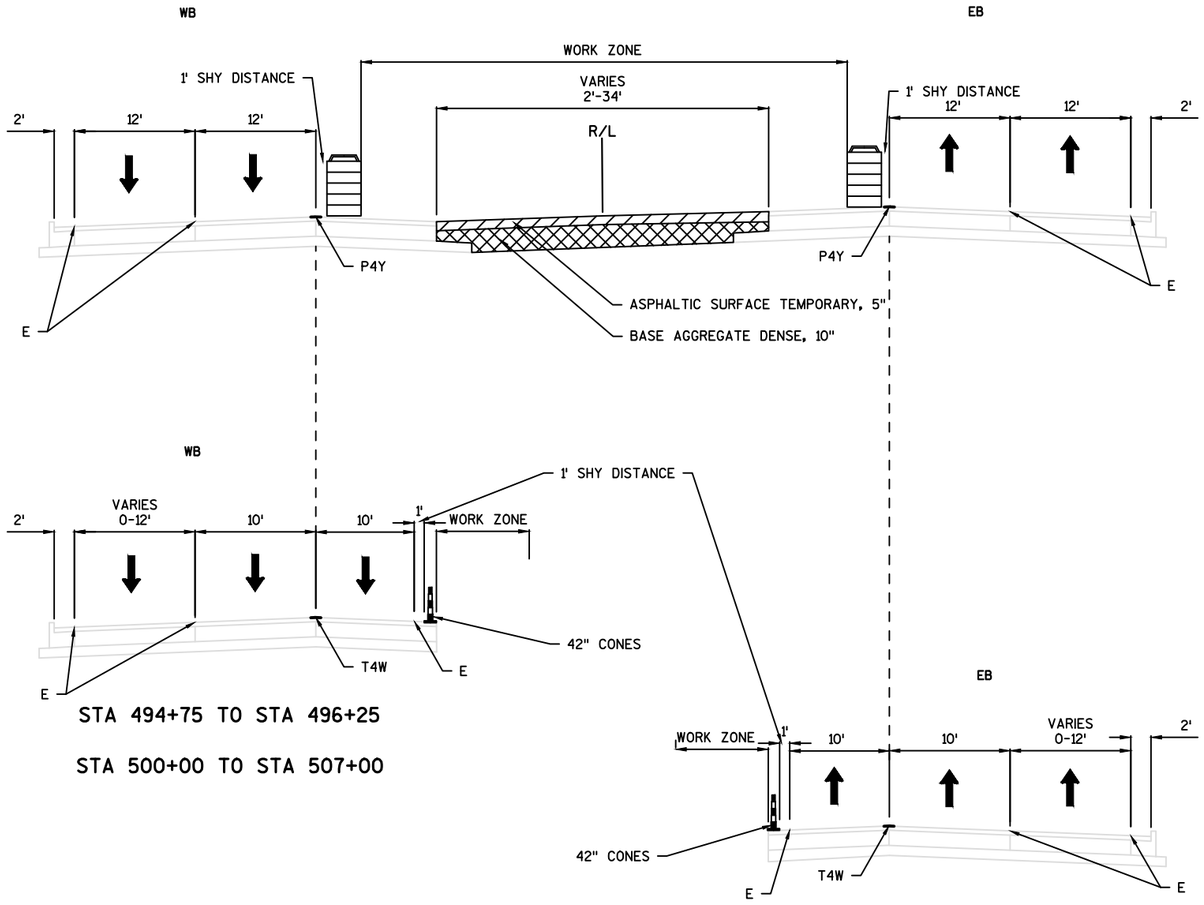
2

LEGEND

	TYPE III BARRICADE WITH TWO TYPE "A" WARNING LIGHTS
	TYPE III BARRICADE WITH TWO TYPE "A" WARNING LIGHTS AND ATTACHED SIGN
	TRAFFIC CONTROL DRUM
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
	TRAFFIC CONTROL CONES 42-INCHES
	FLASHING ARROW BOARD
	SIGN ON PERMANENT SUPPORT
	SIGN ON TEMPORARY SUPPORT
	DELINEATOR FLEXIBLE/TUBULAR MARKER
Ⓐ	TYPE A WARNING LIGHT (FLASHING)
Ⓒ	TYPE C WARNING LIGHT (STEADY BURN)
	WORK AREA
	ASPHALTIC SURFACE TEMPORARY
	FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
	DIRECTION OF TRAFFIC
MB	PORTABLE CHANGEABLE MESSAGE BOARD
CC	CRASH CUSHIONS TEMPORARY

	CONCRETE BARRIER TEMPORARY PRECAST
	TEMPORARY PEDESTRIAN BARRICADE
Ⓔ	EXISTING PAVEMENT MARKING
T8W	TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH, WHITE
T24W	TEMPORARY MARKING LINE REMOVABLE TAPE 24-INCH, WHITE
T4Y	TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH, YELLOW
T4W	TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH, WHITE
T8W	TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH, WHITE
T12W	TEMPORARY MARKING LINE REMOVABLE TAPE 12-INCH, WHITE
TSL	TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
PSL	TEMPORARY MARKING STOP LINE PAINT 18-INCH
P4Y	TEMPORARY MARKING LINE PAINT 4-INCH, YELLOW
P4W	TEMPORARY MARKING LINE PAINT 4-INCH, WHITE
P8W	TEMPORARY MARKING LINE PAINT 8-INCH, WHITE
PW	MARKING WORD PAINT
PA	MARKING ARROW PAINT
	TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH
	MARKING REMOVAL LINE
	TEMPORARY MARKING RAISED PAVEMENT MARKER TYPE I

STAGE 1



STA 494+75 TO STA 496+25

STA 500+00 TO STA 507+00

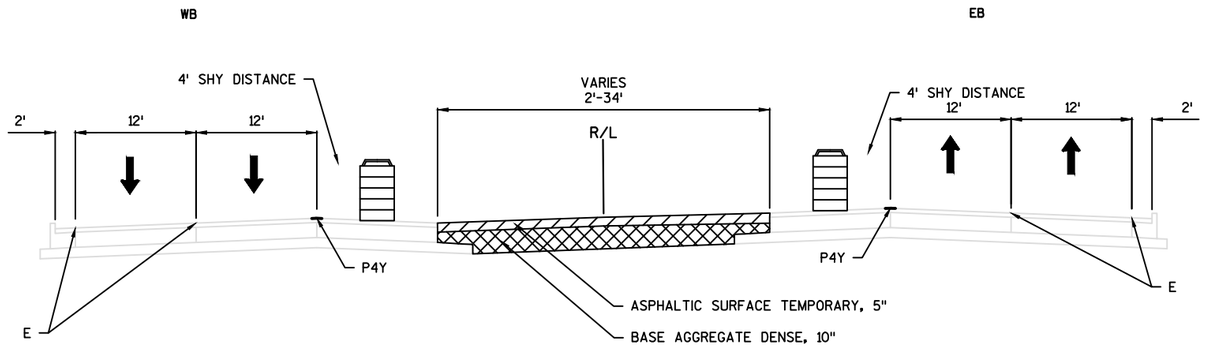
STA 492+00 TO STA 496+25

STH 100

STA 468+00 TO STA 533+00

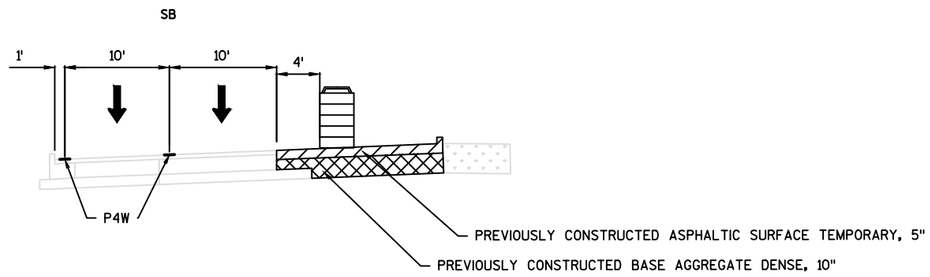
PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - TYPICAL SECTIONS	SHEET 435	E

WINTER SHUTDOWN YEAR 1



STH 100

STA 468+00 TO STA 533+00



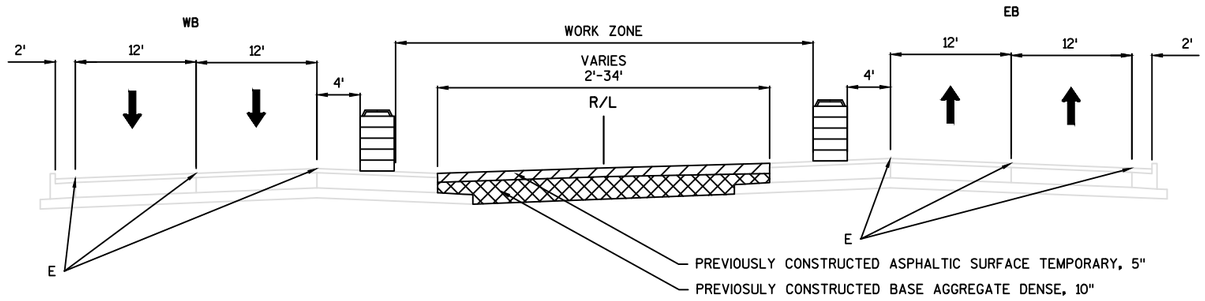
STH 57 SB EXIT RAMP

STA 121+20 TO STA 129+00

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - TYPICAL SECTIONS	SHEET 436	E

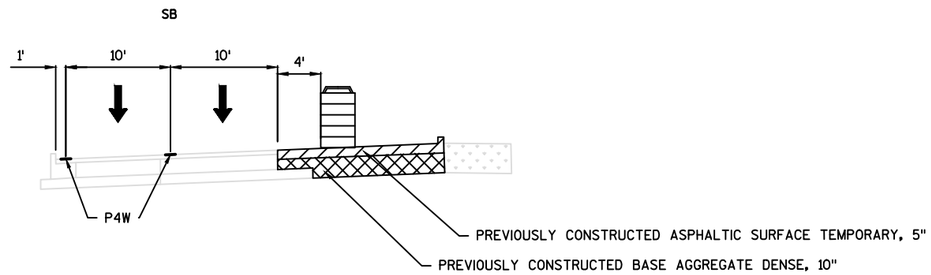
FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026000_ASTS.DWG
LAYOUT NAME - 026000_ASTS - 026002
PLOT DATE : 7/19/2021 3:20 PM PLOT BY : CIERRA SMITH PLOT NAME : PLOT SCALE : 1:15
WISDOT/CADDS SHEET 42

STAGE 2



STH 100

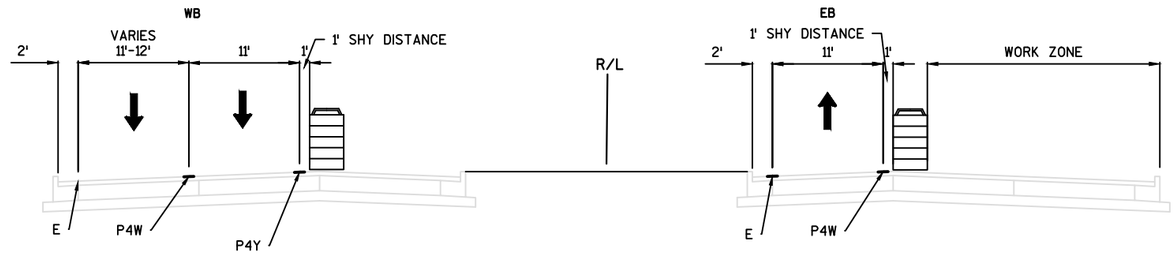
STA 496+82 TO STA 500+16



STH 57 SB EXIT RAMP

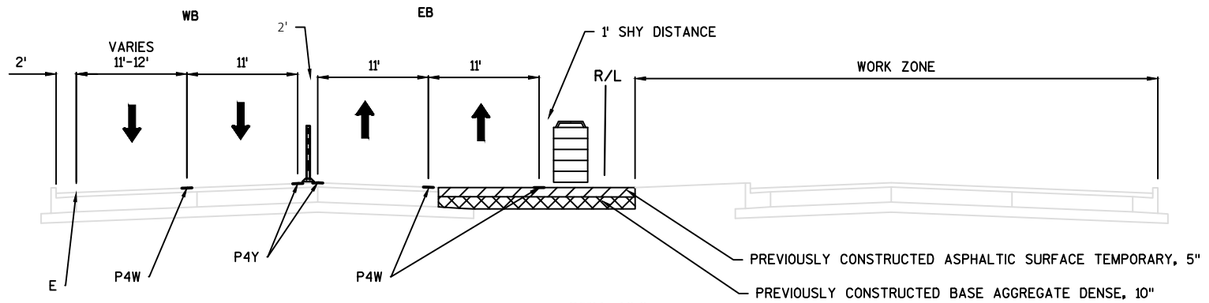
STA 121+20 TO STA 129+00

STAGE 3



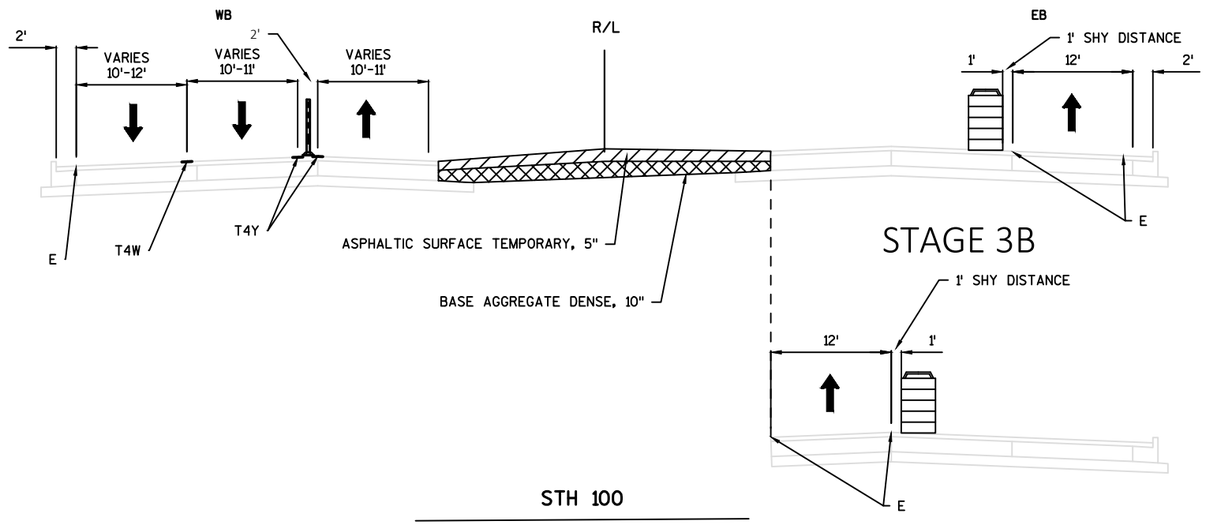
STH 100

STA 482+00 TO STA 487+50



STH 100

STA 487+50 TO STA 502+00



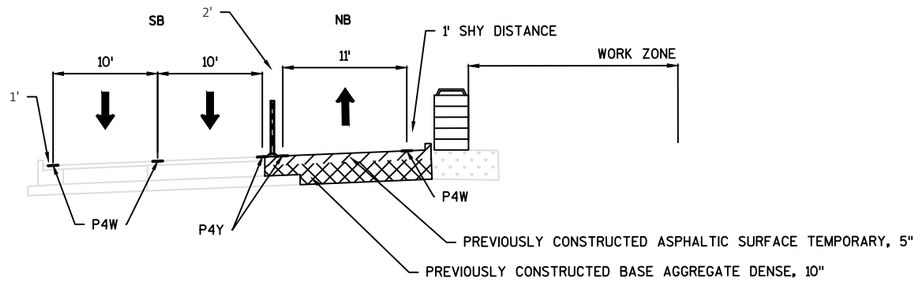
STH 100

STA 508+00 TO STA 517+00

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - TYPICAL SECTIONS	SHEET 438	E

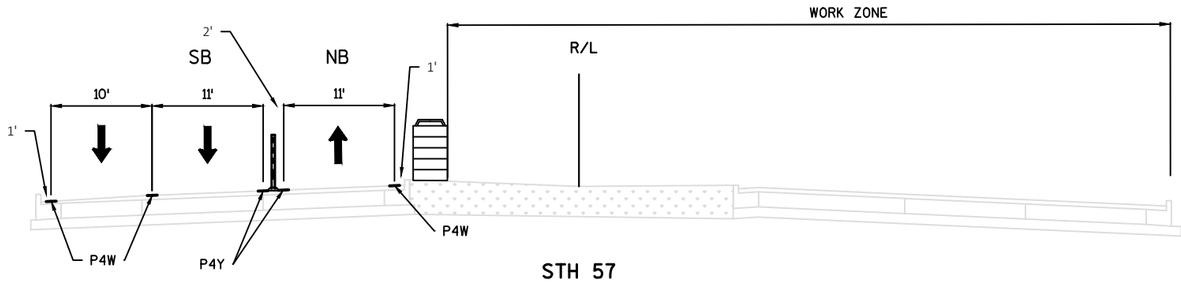
FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026000_ASTS.DWG
LAYOUT NAME - 026000_ASTS - 026004
PLOT DATE : 7/19/2021 3:21 PM PLOT BY : CIERRA SMITH PLOT NAME : PLOT SCALE : 1:15
WISDOT/CADDS SHEET 42

STAGE 3 & 4A



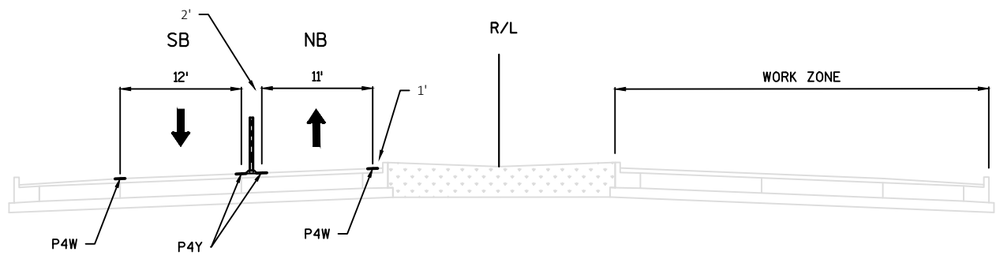
STH 57 SB EXIT RAMP

STA 121+20 TO STA 129+00



STH 57

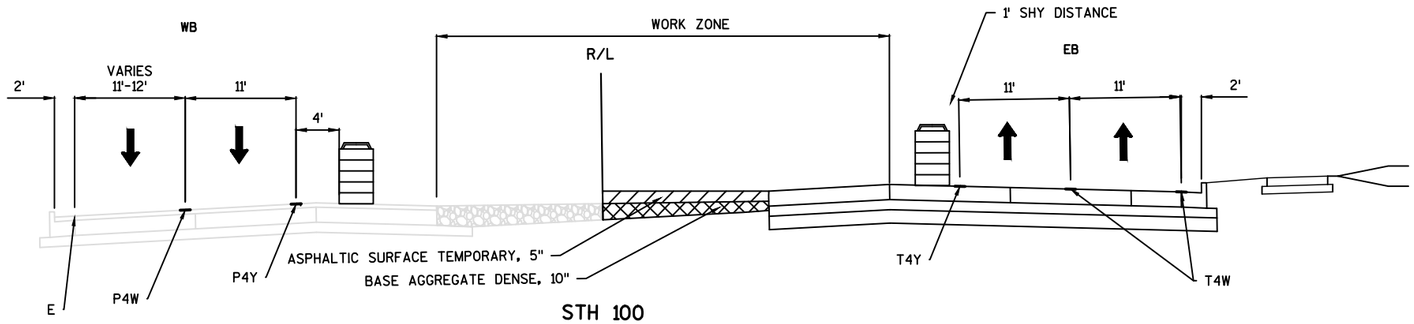
STA 129+00 TO STA 137+00



STH 57

STA 137+00 TO STA 173+00

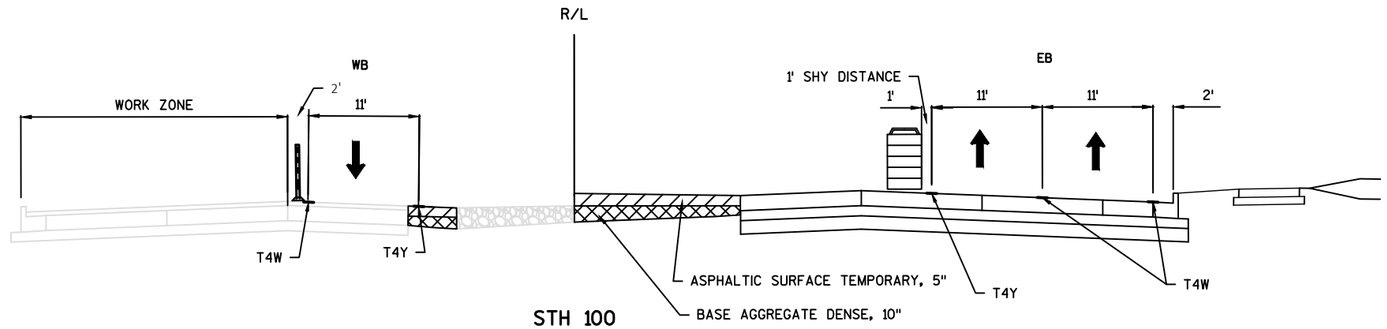
STAGE 4A



STH 100

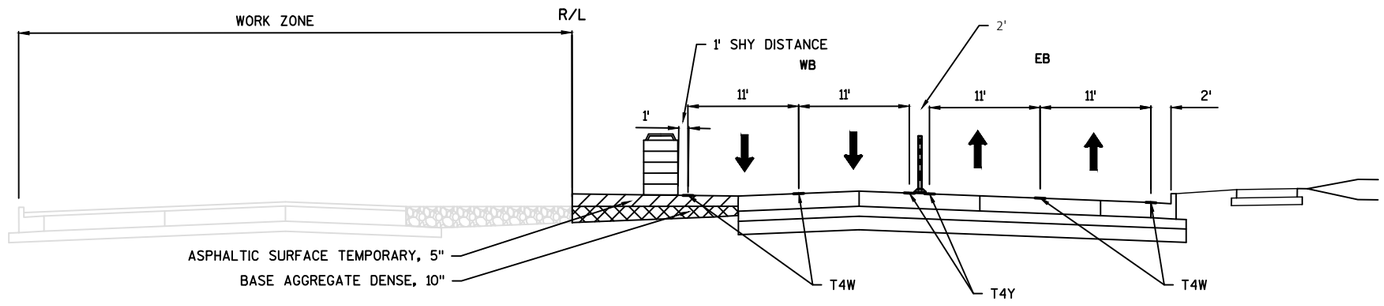
STA 482+00 TO STA 507+00

STAGE 4B



STH 100

STA 482+00 TO STA 487+50

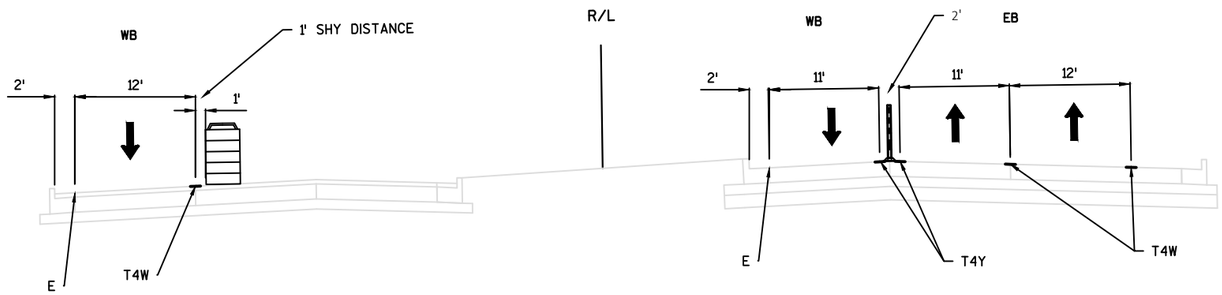


STH 100

STA 487+50 TO STA 502+00

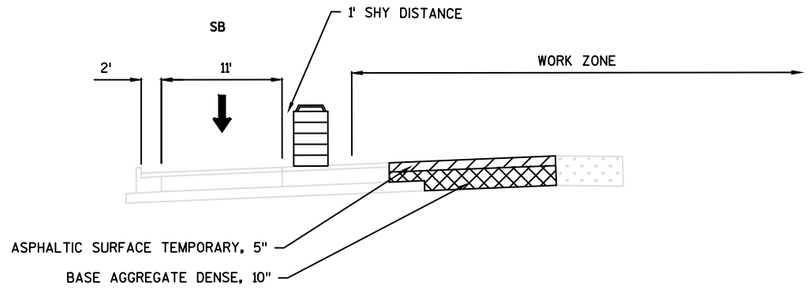
PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - TYPICAL SECTIONS	SHEET 440	E

STAGE 4B



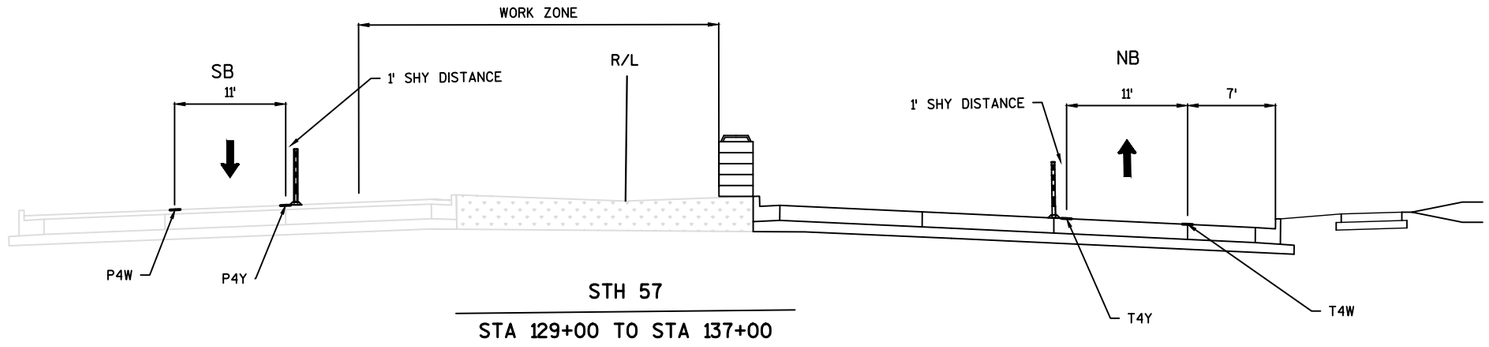
STH 100

STA 508+00 TO STA 517+00



STH 57 SB EXIT RAMP

STA 121+20 TO STA 129+00

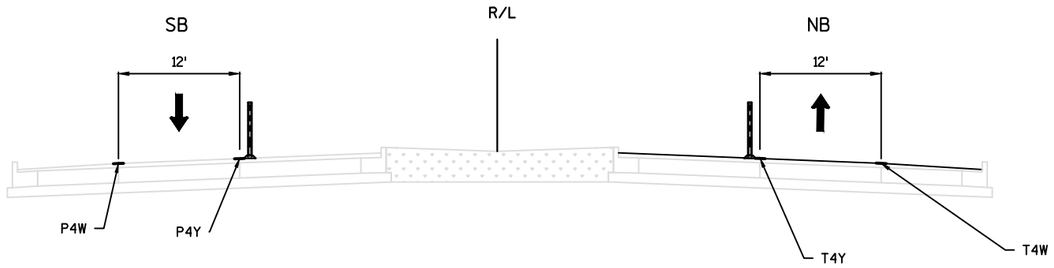


STH 57

STA 129+00 TO STA 137+00

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - TYPICAL SECTIONS	SHEET 441	E

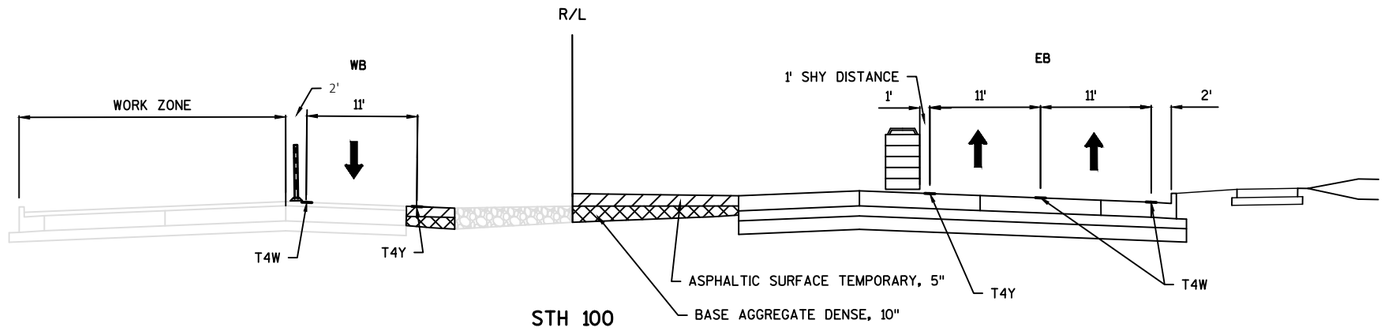
STAGE 4B



STH 57

STA 137+00 TO STA 173+00

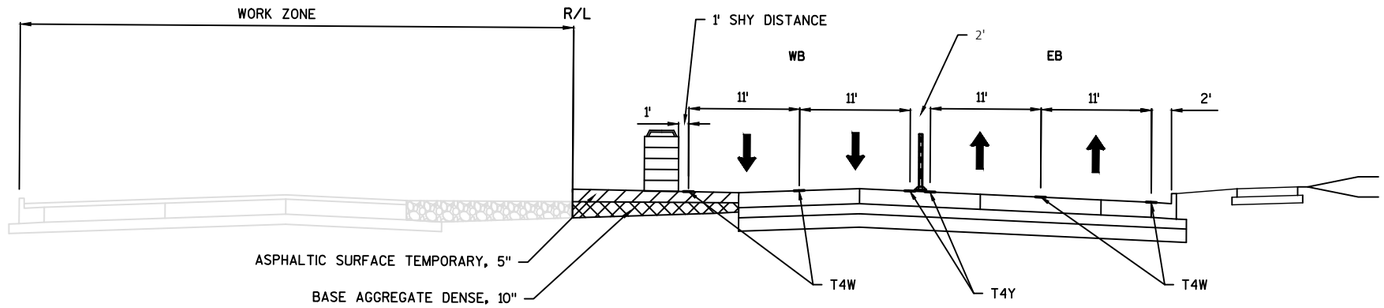
STAGE 5



STH 100

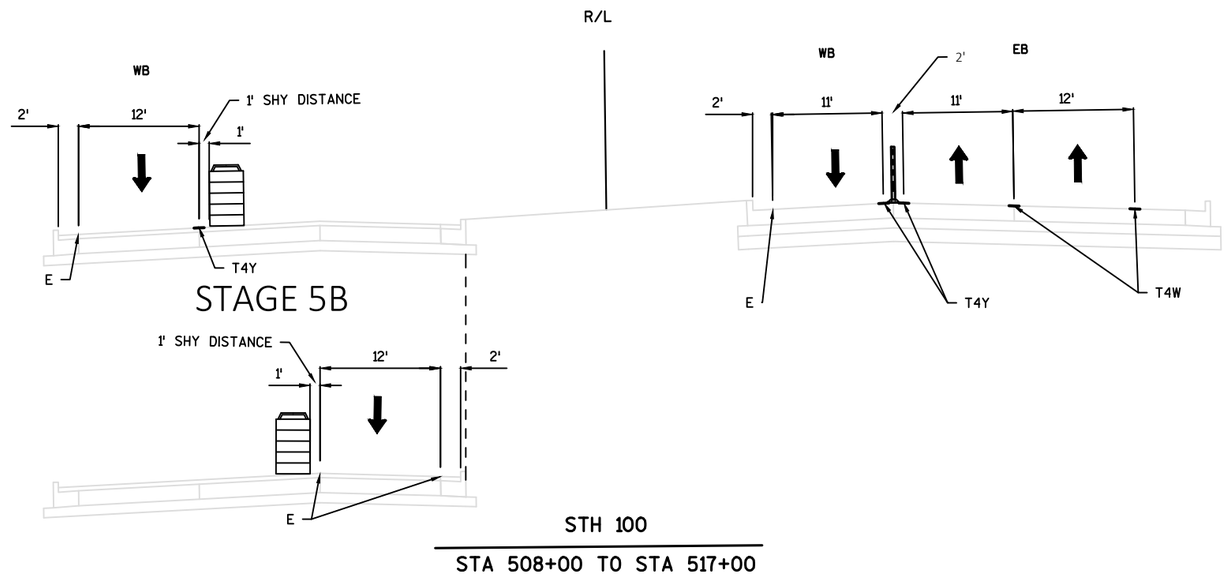
STA 482+00 TO STA 487+50

STAGE 5



STH 100

STA 487+50 TO STA 507+00



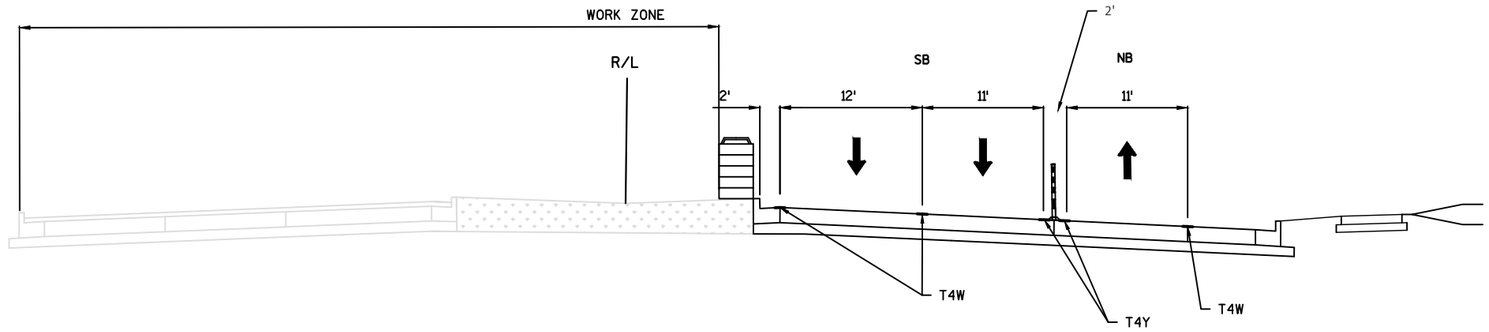
STH 100

STA 508+00 TO STA 517+00

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - TYPICAL SECTIONS	SHEET 443	E

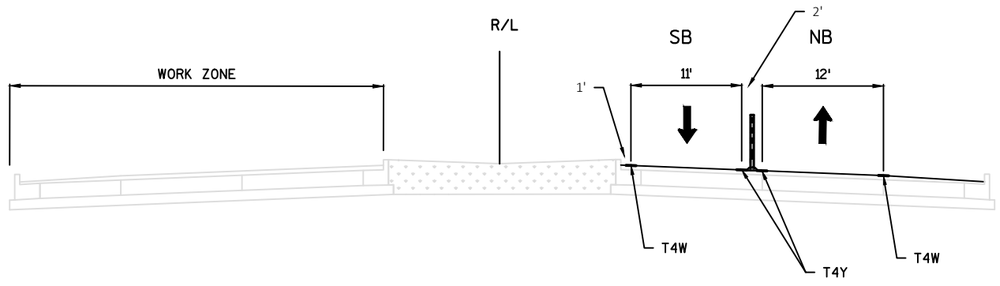
FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026000_ASTS.DWG
LAYOUT NAME - 026000_ASTS - 026009
PLOT DATE : 7/19/2021 3:21 PM PLOT BY : CIERRA SMITH PLOT NAME : PLOT SCALE : 1:15
WISDOT/CADDS SHEET 42

STAGE 5



STH 57

STA 121+20 TO STA 137+00

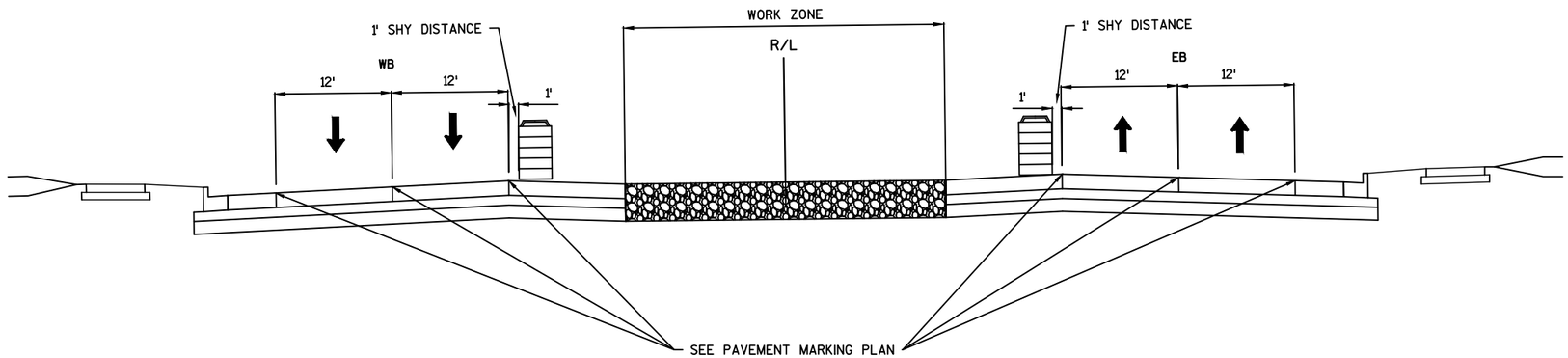


STH 57

STA 137+00 TO STA 173+00

2

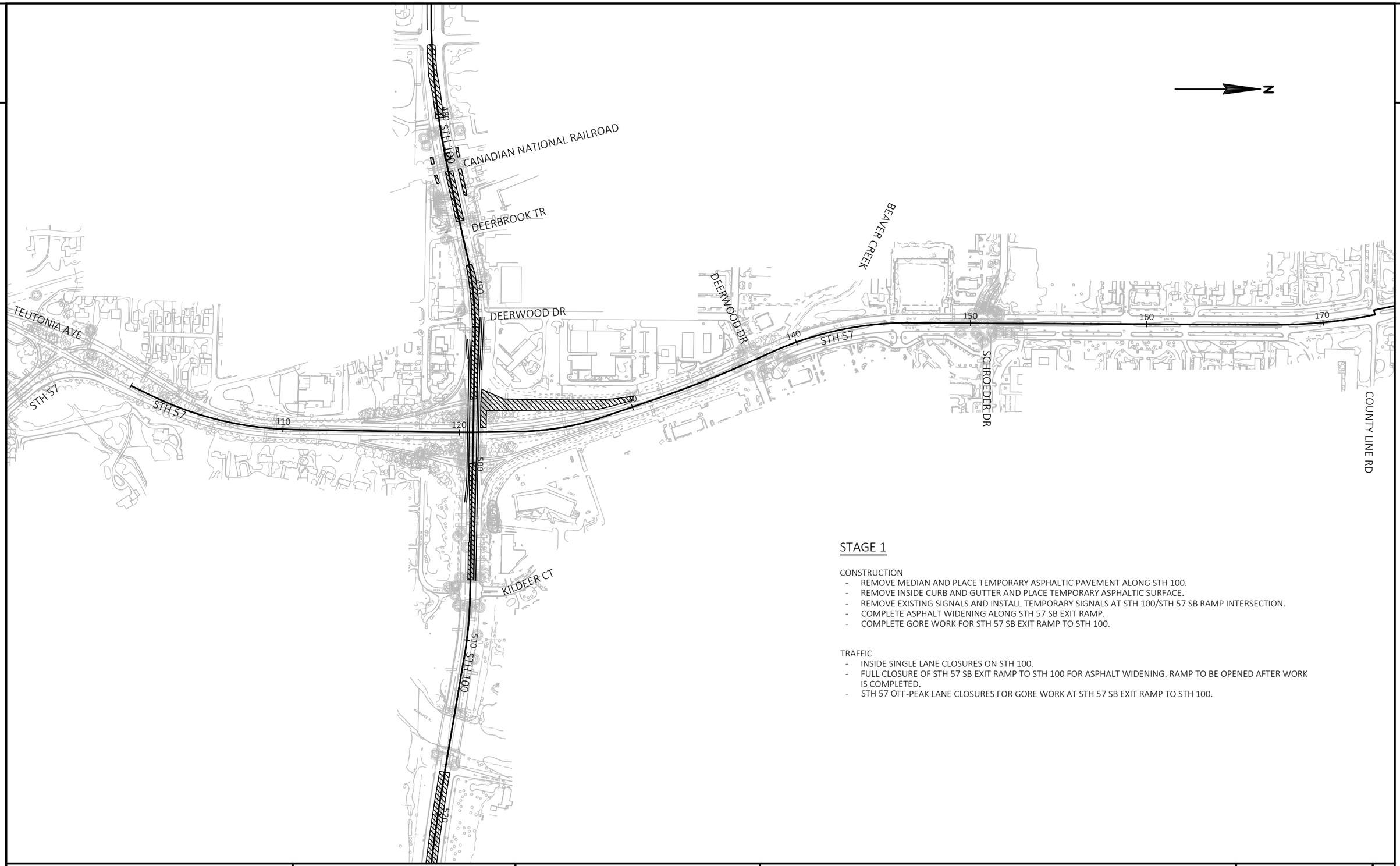
STAGE 6



STH 100

STA 464+50 TO STA 533+00

2



STAGE 1

CONSTRUCTION
- REMOVE MEDIAN AND PLACE TEMPORARY ASPHALTIC PAVEMENT ALONG STH 100.
- REMOVE INSIDE CURB AND GUTTER AND PLACE TEMPORARY ASPHALTIC SURFACE.
- REMOVE EXISTING SIGNALS AND INSTALL TEMPORARY SIGNALS AT STH 100/STH 57 SB RAMP INTERSECTION.
- COMPLETE ASPHALT WIDENING ALONG STH 57 SB EXIT RAMP.
- COMPLETE GORE WORK FOR STH 57 SB EXIT RAMP TO STH 100.

TRAFFIC
- INSIDE SINGLE LANE CLOSURES ON STH 100.
- FULL CLOSURE OF STH 57 SB EXIT RAMP TO STH 100 FOR ASPHALT WIDENING. RAMP TO BE OPENED AFTER WORK IS COMPLETED.
- STH 57 OFF-PEAK LANE CLOSURES FOR GORE WORK AT STH 57 SB EXIT RAMP TO STH 100.

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	STAGE 1 OVERVIEW	SHEET 446	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026000_S1O.DWG
LAYOUT NAME - 026001
PLOT DATE : 4/19/2021 4:31 PM
PLOT BY : TONY BUBLITZ
PLOT NAME :
PLOT SCALE : 1 IN:500 FT
WISDOT/CADDS SHEET 42

2

STH 100 (W. BROWN DEER ROAD)

497+00

498+00

499+00

500+00

R/L STH 100

121+00

122+00

123+00

124+00

125+00

126+00

STH 57 (N. GREEN BAY ROAD)

R/L STH 57

END
ROAD WORK
G20-2A
48"X24"

END
ROAD WORK
G20-2A
48"X24"

N

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 1	SHEET 447	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026001_S1.DWG
LAYOUT NAME - 026010

PLOT DATE : 4/22/2021 7:41 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

R11-2R
48" X 30"
RAMP CLOSED
TYPE III BARRICADE

COVER EXISTING SIGN

127+00
128+00
129+00
130+00
131+00
132+00

R/L STH 57

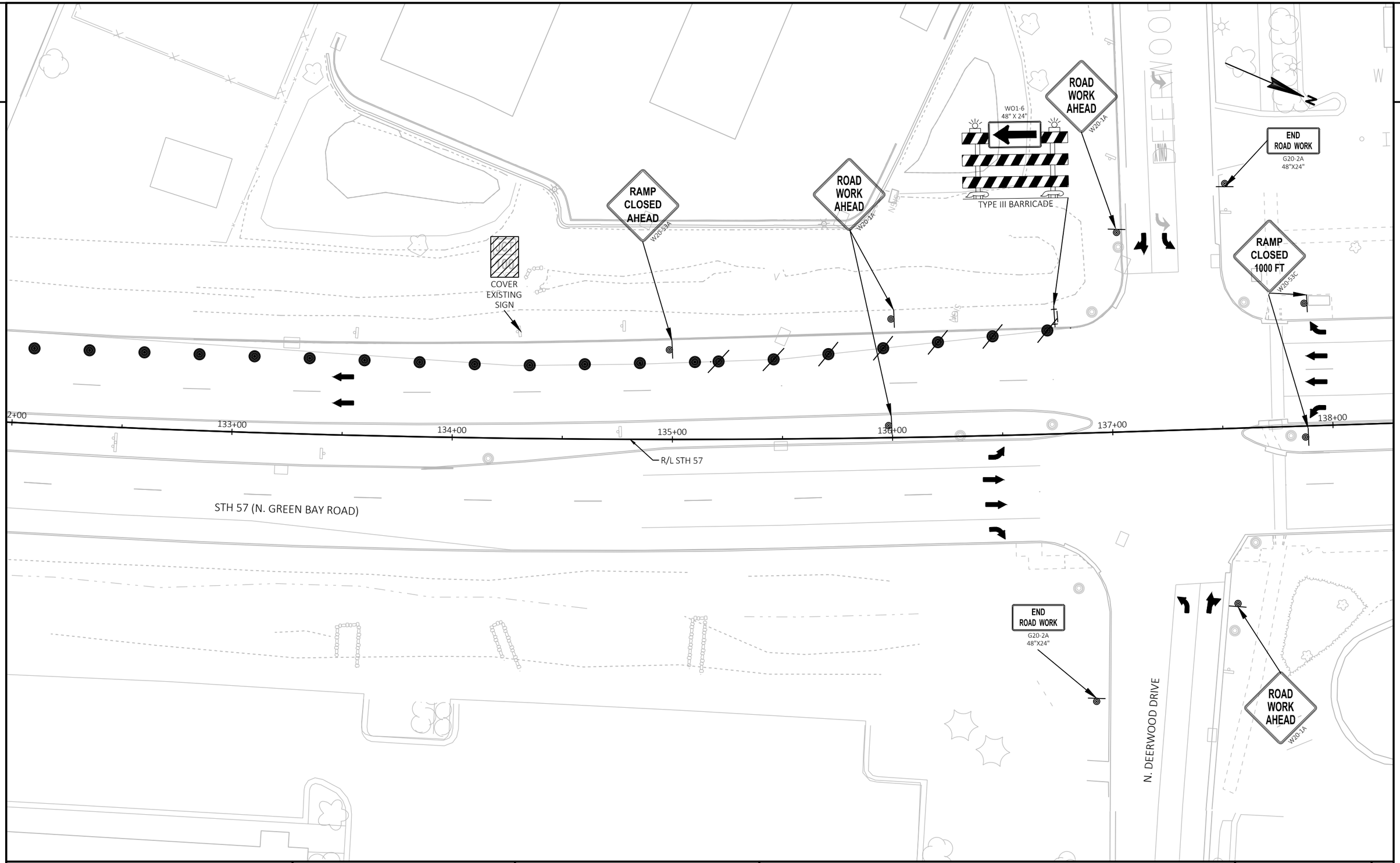
STH 57 (N. GREEN BAY ROAD)

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 1	SHEET 448	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026001_S1.DWG
LAYOUT NAME - 026011

PLOT DATE : 4/22/2021 7:41 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

2



PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 1	SHEET 449	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026001_S1.DWG
LAYOUT NAME - 026012

PLOT DATE : 4/22/2021 7:41 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

N 51st ST

S

S

W

END
ROAD WORK
G20-2A
48"X24"

464+00 465+00 466+00 467+00 468+00 469+00 470+00

R/L STH 100

STH 100 (W. BROWN DEER ROAD)

25'

T4Y

350' 350' 350'

SIGN

ROAD WORK AHEAD
W20-1A

LEFT LANE CLOSED AHEAD
W20-5SA

W04-2L

320'
MERGING
TAPER

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 1	SHEET 450	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026002_S1.DWG
LAYOUT NAME - 026014

PLOT DATE : 7/21/2021 4:58 PM PLOT BY : JOE MAAS PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

N ARBON DR

ROAD WORK AHEAD
W20-1A

350'

BEGIN LEFT TURN LANE
R3-20L
24"X36"

WO1-6
48" X 24"
TYPE III BARRICADE

T4Y

R/L STH 100

470+00 471+00 472+00 473+00 474+00 475+00

25'

STH 100 (W. BROWN DEER ROAD)

BEGIN LEFT TURN LANE
R3-20L
24"X36"

T4Y

T8W

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

WO1-6
48" X 24"
TYPE III BARRICADE

320'
MERGING
TAPER

END ROAD WORK
G20-2A
48"X24"

PKNG

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 1	SHEET 451	E

2

2

ROAD WORK AHEAD
W20-1A

350'

N ARBON DR

END ROAD WORK
G20-2A
48"X24"

SPEED LIMIT 40
R2-1
RELOCATE EXISTING SIGN

BEGIN LEFT TURN LANE
R3-20L
24"X36"

W10-1
RELOCATE EXISTING SIGN

ARBON DR
RELOCATE EXISTING SIGN

R4-7

WO1-6
48" X 24"
TYPE III BARRICADE

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

N

T8W

T4Y

T8W

476+00

477+00

478+00

479+00

480+00

481+00

STH 100 (W. BROWN DEER ROAD)

R/L STH 100

RR

WO1-6
48" X 24"
TYPE III BARRICADE

BEGIN LEFT TURN LANE
R3-20L
24"X36"

WO1-6
48" X 24"
TYPE III BARRICADE

350'

ROAD WORK AHEAD
W20-1A

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 1	SHEET 452	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026002_S1.DWG
LAYOUT NAME - 026016
PLOT DATE : 7/21/2021 4:59 PM
PLOT BY : JOE MAAS
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

ROAD WORK AHEAD
W20-1A

END ROAD WORK
G20-2A
48"X24"

N

BEGIN LEFT TURN LANE
R3-20L
24"X36"

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

WO1-6
48" X 24"
TYPE III BARRICADE

350'

N DEERBROOK TRAIL

T8W

T4Y

50'

482+00

483+00

484+00

485+00

486+00

487+00

R/L STH 100

CANADIAN NATIONAL RAILWAY

STH 100 (W. BROWN DEER ROAD)

12'

12'

T4Y

T8W

WO1-4BL

BEGIN LEFT TURN LANE
R3-20L
24"X36"

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

N. DEERBROOK TRAIL

END ROAD WORK
G20-2A
48"X24"

ROAD WORK AHEAD
W20-1A

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 1	SHEET 453	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026002_S1.DWG
LAYOUT NAME - 026017

PLOT DATE : 7/21/2021 4:59 PM PLOT BY : JOE MAAS PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

ROAD WORK AHEAD
W20-1A

END ROAD WORK
G20-2A
48"X24"

N

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

BEGIN LEFT TURN LANE
R3-20L
24"X36"

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

WO1-6
48" X 24"
TYPE III BARRICADE

350'

N DEERWOOD DRIVE

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

MARKING REMOVAL SPECIAL MARKING

T8W
T4Y
T4W

R/L STH 100

487+00
488+00
489+00
490+00
491+00
492+00
493+00

10'
10'

12'
12'

WO1-6
48" X 24"
TYPE III BARRICADE

WO1-6
48" X 24"
TYPE III BARRICADE

200'
SHIFTING
TAPER

STH 100 (W. BROWN DEER ROAD)

N. DEERWOOD DRIVE

350'

ROAD WORK AHEAD
W20-1A

END ROAD WORK
G20-2A
48"X24"

ROAD WORK AHEAD
W20-1A

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 1	SHEET 454	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026002_S1.DWG
LAYOUT NAME - 026018
PLOT DATE : 7/21/2021 4:59 PM
PLOT BY : JOE MAAS
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

135'
SHIFTING
TAPER

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

WO1-6
48" X 24"
TYPE III BARRICADE

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

STOP
R1-1F
30"X30"

WO1-4BR

STH 57 (N. GREEN BAY ROAD)

N

122+00

121+00

120+00

119+00

493+00

494+00

495+00

496+00

497+00

498+00

499+

T4Y

T4W

10'

R/L STH 100

TSL

STH 100 (W. BROWN DEER ROAD)

R/L STH 57

STOP
R1-1F
30"X30"

LEFT LANE
MUST
TURN LEFT
R3-7L
30"X30"

NOTE: OFF-PEAK LANE CLOSURES ALLOWED FOR REMOVAL OF EXISTING SIGNAL AND INSTALLATION OF TEMPORARY SIGNAL AT STH 100/STH 57 SB RAMPS

END
ROAD WORK
G20-2A
48"X24"

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 1	SHEET 455	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026002_S1.DWG
LAYOUT NAME - 026019
PLOT DATE : 7/21/2021 5:00 PM
PLOT BY : JOE MAAS
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

N

INL

WO1-6
48" X 24"

TYPE III BARRICADE

T4W

WO1-4BR

10'

10'

11'

10'

499+00

500+00

501+00

502+00

503+00

504+00

R/L STH 100

12'

12'

12'

12'

STH 100 (W. BROWN DEER ROAD)

T4Y

T4W

160'
SHIFTING
TAPER

BEGIN
LEFT
TURN
LANE

R3-20L
24"X36"

NOTE:
CLOSE LEFT TURN LANE DURING MEDIAN CONSTRUCTION

ROAD
WORK
AHEAD

W20-1A

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 1	SHEET 456	E

2

2

ROAD WORK AHEAD
W20-1A

WO1-6
48" X 24"

TYPE III BARRICADE

350'

N KILDEER COURT

N. KILDEER COURT

END ROAD WORK
G20-2A
48"X24"

N

W

T4W

12'
10'
12'
10'

12'
12'
12'

505+00
506+00
507+00
508+00
509+00
510+00

R/L STH 100

STH 100 (W. BROWN DEER ROAD)

NOTE:
CLOSE LEFT TURN LANE DURING MEDIAN CONSTRUCTION

END ROAD WORK
G20-2A
48"X24"

WO1-6
48" X 24"

TYPE III BARRICADE

350'

ROAD WORK AHEAD
W20-1A

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 1	SHEET 457	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026002_S1.DWG
LAYOUT NAME - 026021

PLOT DATE : 4/23/2021 9:03 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

MILWAUKEE RIVER

BEGIN LEFT TURN LANE

R3-20L
24"X36"

50'

510+00 511+00 512+00 513+00 514+00 515+00 516+00

R/L STH 100

STH 100 (W. BROWN DEER ROAD)

BEGIN LEFT TURN LANE

R3-20L
24"X36"

MILWAUKEE R.

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 1	SHEET 458	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026002_S1.DWG
LAYOUT NAME - 026022

PLOT DATE : 4/23/2021 9:03 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

ROAD WORK AHEAD
W20-1A

350'

N. UPPER RIVER ROAD

END ROAD WORK
G20-2A
48"X24"

N

SIGN

516+00 517+00 518+00 519+00 520+00 521+00 522+

R/L STH 100

STH 100 (W. BROWN DEER ROAD)

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

WO1-6
48" X 24"
TYPE III BARRICADE

MH

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 1	SHEET 459	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026002_S1.DWG
LAYOUT NAME - 026023

PLOT DATE : 4/23/2021 9:04 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

R11-2L
48" X 30"

LANE CLOSED

TYPE III BARRICADE

50'

522+00

523+00

524+00

525+00

526+00

527+00

R/L STH 100

STH 100 (W. BROWN DEER ROAD)

500'

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 1	SHEET 460	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026002_S1.DWG
LAYOUT NAME - 026024

PLOT DATE : 4/23/2021 9:04 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

R11-2L
48" X 30"
LANE CLOSED

TYPE III BARRICADE

MH

MH

INL

STH 100

528+00

529+00

530+00

531+00

532+00

533+00

R/L STH 100

STH 100

STH 100 (W. BROWN DEER ROAD)

INL

INL

INL

END
ROAD WORK

G20-2A
48"X24"

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 1	SHEET 461	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026002_S1.DWG
LAYOUT NAME - 026025

PLOT DATE : 4/23/2021 9:04 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

540'
MERGING
TAPER

T4Y

25'

534+00

535+00

536+00

537+00

538+00

R/L STH 100

STH 100 (W. BROWN DEER ROAD)

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 1	SHEET 462	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026002_S1.DWG
LAYOUT NAME - 026026

PLOT DATE : 4/23/2021 9:04 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

W04-2L

LEFT LANE CLOSED AHEAD
W20-5SA

ROAD WORK AHEAD
W20-1A

ROAD WORK AHEAD
W20-1A

500'

500'

500'

350'

N RANGE LINE ROAD

STH 100 (W. BROWN DEER ROAD)

N RANGE LINE ROAD

350'

ROAD WORK AHEAD
W20-1A

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 1	SHEET 463	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026002_S1.DWG
LAYOUT NAME - 026027

PLOT DATE : 4/23/2021 9:04 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

STH 100 (W. BROWN DEER ROAD)

7+00

MARKING ARROW PAINT

MARKING WORD PAINT

8+00

9+00

50'

10+00

11'

10'

P4W

P4W

11+00

126+50.00

N

2

MARKING REMOVAL SPECIAL MARKING

P4Y

497+00

R/L STH 100

498+00

P4W

121+00

122+00

123+00

124+00

125+00

126+00

STH 57 (N. GREEN BAY ROAD)

R/L STH 57

W01-10R

W01-4BR

499+00

END
ROAD WORK

G20-2A
48"X24"

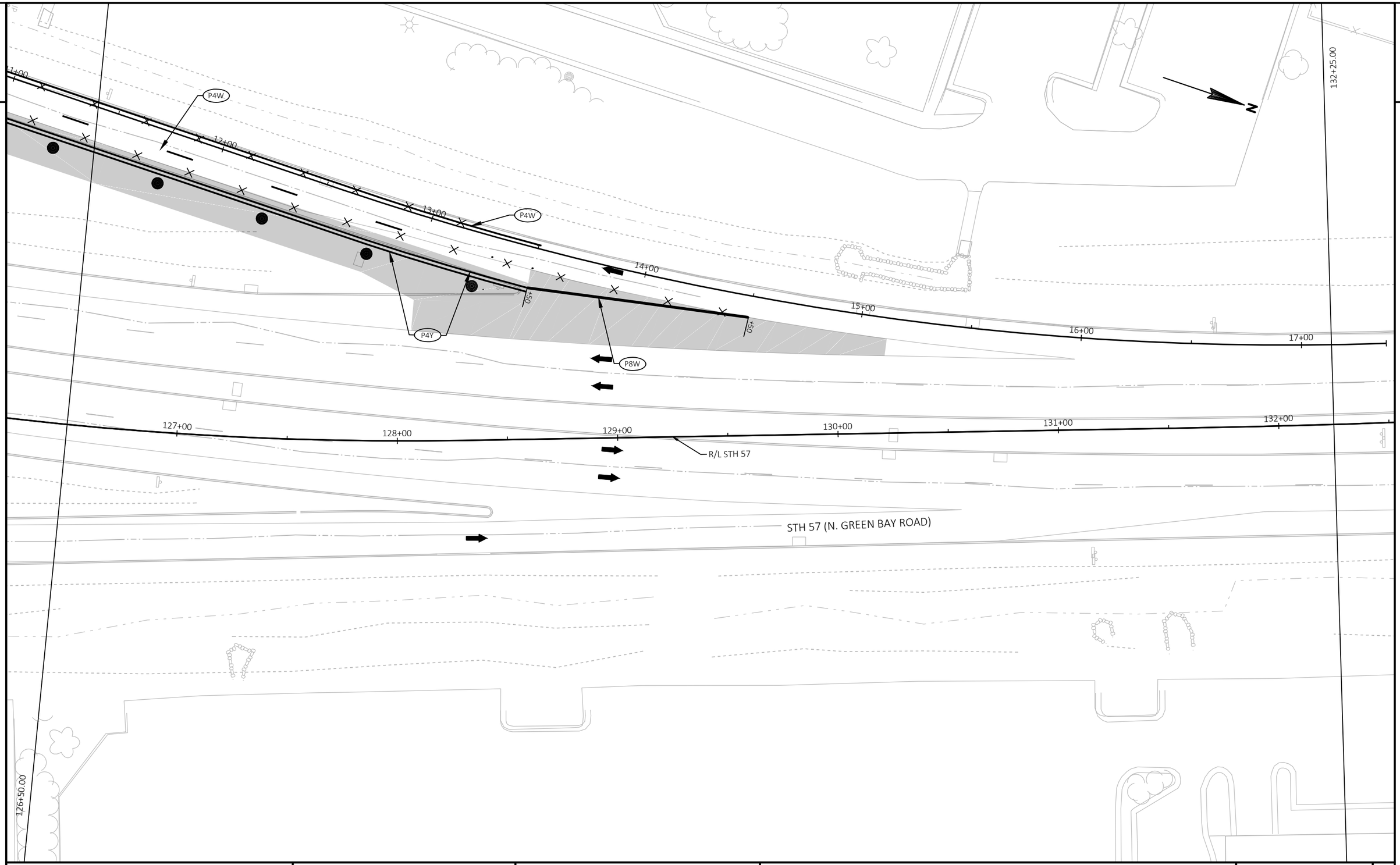
500+00

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - WINTER SHUTDOWN STAGE 1-2	SHEET 464	E

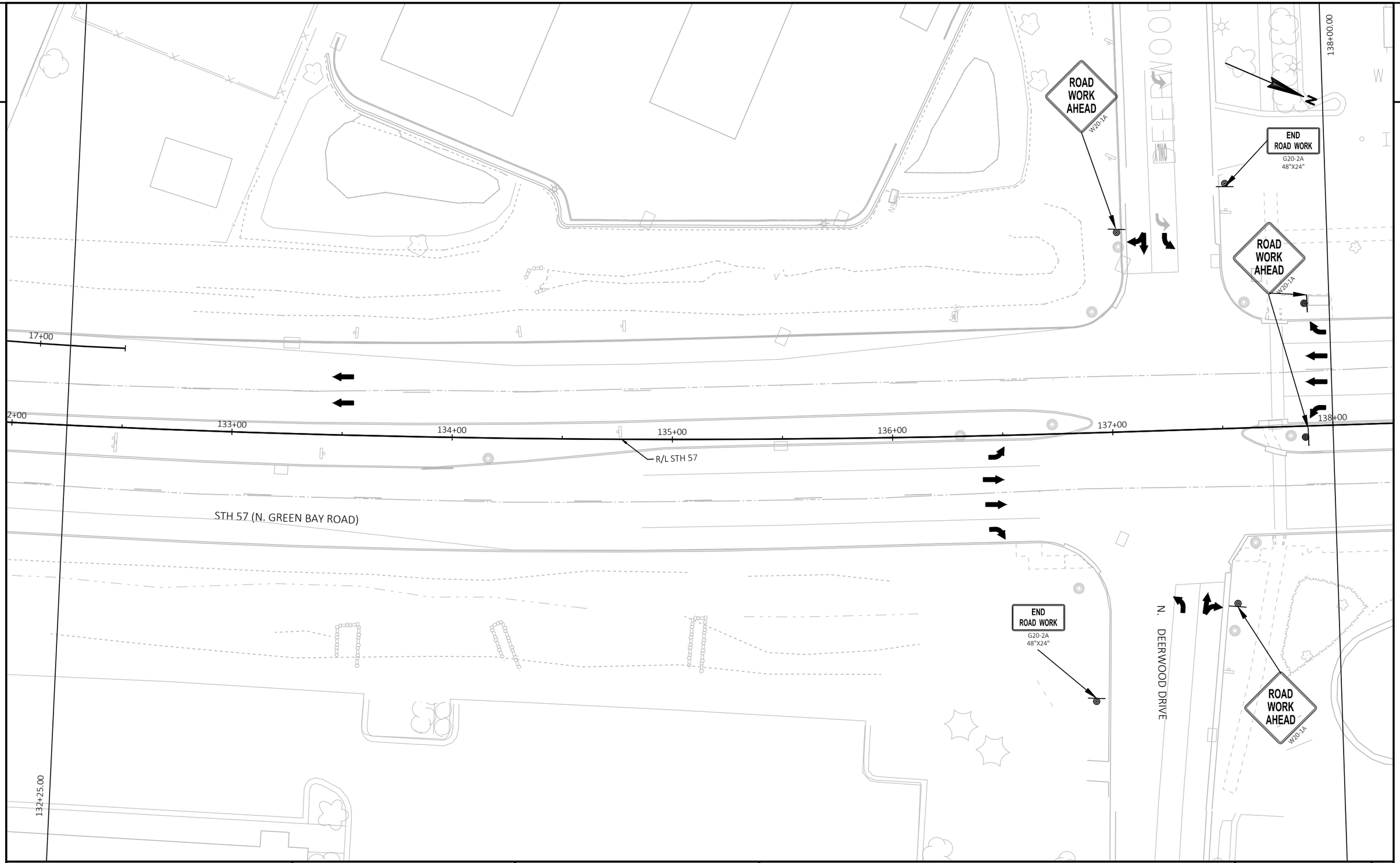
FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026005_S1.DWG
LAYOUT NAME - 026010

PLOT DATE : 4/22/2021 8:40 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

2



PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - WINTER SHUTDOWN STAGE 1-2	SHEET 465	E



2

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - WINTER SHUTDOWN STAGE 1-2	SHEET 466	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026005_S1.DWG
LAYOUT NAME - 026012
PLOT DATE : 4/22/2021 8:40 AM
PLOT BY : TONY BUBLITZ
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

N

N 51st ST

S

S

W

464+00

465+00

466+00

467+00

468+00

469+00

470+00

R/L STH 100

STH 100 (W. BROWN DEER ROAD)

SIGN

ROAD WORK AHEAD

W20-1A

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - WINTER SHUTDOWN STAGE 1-2	SHEET 467	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026006_S1.DWG
LAYOUT NAME - 026014

PLOT DATE : 7/22/2021 9:10 AM PLOT BY : JOE MAAS PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

ROAD WORK AHEAD
W20-1A

350'

N ARBON DR

END
ROAD WORK
G20-2A
48"X24"

470+00

471+00

472+00

473+00

R/L STH 100

474+00

475+00

STH 100 (W. BROWN DEER ROAD)

PKNG

END
ROAD WORK
G20-2A
48"X24"

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - WINTER SHUTDOWN STAGE 1-2	SHEET 468	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026006_S1.DWG
LAYOUT NAME - 026015

PLOT DATE : 7/22/2021 9:11 AM PLOT BY : JOE MAAS PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

ROAD WORK AHEAD
W20-1A

350'

N ARBON DR

END ROAD WORK
G20-2A
48"X24"

SPEED LIMIT 40
R2-1
RELOCATE EXISTING SIGN

BEGIN LEFT TURN LANE
R3-20L
24"X36"

R R
W10-1
RELOCATE EXISTING SIGN

ARBON DR
RELOCATE EXISTING SIGN

R4-7

N

476+00
477+00
478+00
479+00
480+00
481+00

P4Y

R/L STH 100

STH 100 (W. BROWN DEER ROAD)

BEGIN LEFT TURN LANE
R3-20L
24"X36"

350'

ROAD WORK AHEAD
W20-1A

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - WINTER SHUTDOWN STAGE 1-2	SHEET 469	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026006_S1.DWG
LAYOUT NAME - 026016

PLOT DATE : 7/22/2021 9:11 AM PLOT BY : JOE MAAS PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

BEGIN LEFT TURN LANE

R3-20L
24"X36"

ROAD WORK AHEAD

W20-1A

END ROAD WORK

G20-2A
48"X24"

N

350'

N DEERBROOK TRAIL

50'

482+00

483+00

484+00

485+00

486+00

487+00

R/L STH 100

P4Y

CANADIAN NATIONAL RAILWAY

STH 100 (W. BROWN DEER ROAD)

BEGIN LEFT TURN LANE

R3-20L
24"X36"

END ROAD WORK

G20-2A
48"X24"

N. DEERBROOK TRAIL

ROAD WORK AHEAD

W20-1A

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - WINTER SHUTDOWN STAGE 1-2	SHEET 470	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026006_S1.DWG
LAYOUT NAME - 026017

PLOT DATE : 7/22/2021 9:11 AM PLOT BY : JOE MAAS PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

ROAD WORK AHEAD
W20-1A

END ROAD WORK
G20-2A
48"X24"

N

BEGIN LEFT TURN LANE
R3-20L
24"X36"

350'

N DEERWOOD DRIVE

P4Y

R/L STH 100

488+00

489+00

490+00

491+00

492+00

493+00

STH 100 (W. BROWN DEER ROAD)

N. DEERWOOD DRIVE

350'

ROAD WORK AHEAD
W20-1A

END ROAD WORK
G20-2A
48"X24"

ROAD WORK AHEAD
W20-1A

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - WINTER SHUTDOWN STAGE 1-2	SHEET 471	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026006_S1.DWG
LAYOUT NAME - 026018

PLOT DATE : 7/22/2021 9:12 AM PLOT BY : JOE MAAS PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

BEGIN LEFT TURN LANE

R3-20L
24"X36"

ONLY

ONLY

N

STH 57 (N. GREEN BAY ROAD)

122+00

121+00

493+00

494+00

495+00

496+00

497+00

498+00

499+

R/L STH 100

P4Y

STH 100 (W. BROWN DEER ROAD)

R/L STH 57

120+00

119+00

SIGN

END ROAD WORK

G20-2A
48"X24"

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - WINTER SHUTDOWN STAGE 1-2	SHEET 472	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026006_S1.DWG
LAYOUT NAME - 026019

PLOT DATE : 7/22/2021 9:12 AM PLOT BY : JOE MAAS PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

INL

499+00

500+00

501+00

502+00

503+00

504+00

P4Y

R/L STH 100

STH 100 (W. BROWN DEER ROAD)

ROAD WORK AHEAD

W20-1A

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - WINTER SHUTDOWN STAGE 1-2	SHEET 473	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026006_S1.DWG
LAYOUT NAME - 026020

PLOT DATE : 7/22/2021 9:13 AM PLOT BY : JOE MAAS PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

ROAD WORK AHEAD
W20-1A

350'

N KILDEER COURT

N. KILDEER COURT

END ROAD WORK
G20-2A
48"X24"

N

W

505+00 506+00 507+00 508+00 509+00 510+00

R/L STH 100

P4W

STH 100 (W. BROWN DEER ROAD)

350'

END ROAD WORK
G20-2A
48"X24"

ROAD WORK AHEAD
W20-1A

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - WINTER SHUTDOWN STAGE 1-2	SHEET 474	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026006_S1.DWG
LAYOUT NAME - 026021

PLOT DATE : 7/22/2021 9:13 AM PLOT BY : JOE MAAS PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

MILWAUKEE RIVER

510+00

511+00

512+00

513+00

514+00

515+00

516+00

R/L STH 100

STH 100 (W. BROWN DEER ROAD)

MILWAUKEE R.

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - WINTER SHUTDOWN STAGE 1-2	SHEET 475	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026006_S1.DWG
LAYOUT NAME - 026022

PLOT DATE : 7/22/2021 9:13 AM PLOT BY : JOE MAAS PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

ROAD WORK AHEAD
W20-1A

350'

N. UPPER RIVER ROAD

END ROAD WORK
G20-2A
48"X24"

N

SIGN

P4Y

516+00 517+00 518+00 519+00 520+00 521+00 522+

R/L STH 100

STH 100 (W. BROWN DEER ROAD)

MH

INL

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - WINTER SHUTDOWN STAGE 1-2	SHEET 476	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026006_S1.DWG
LAYOUT NAME - 026023

PLOT DATE : 7/22/2021 9:14 AM PLOT BY : JOE MAAS PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

522+00

523+00

524+00

525+00

526+00

527+00

R/L STH 100

P4Y

STH 100 (W. BROWN DEER ROAD)

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - WINTER SHUTDOWN STAGE 1-2	SHEET 477	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026006_S1.DWG
LAYOUT NAME - 026024

PLOT DATE : 7/22/2021 9:14 AM PLOT BY : JOE MAAS PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

MH

MH

INL

STH 100

528+00

529+00

530+00

531+00

532+00

533+00

R/L STH 100

STH 100

STH 100 (W. BROWN DEER ROAD)

INL

INL

INL

END
ROAD WORK

G20-2A
48"X24"

W

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - WINTER SHUTDOWN STAGE 1-2	SHEET 478	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026006_S1.DWG
LAYOUT NAME - 026025

PLOT DATE : 7/22/2021 9:15 AM

PLOT BY : JOE MAAS

PLOT NAME :

PLOT SCALE : 1 IN:40 FT

2

2

N

MH

INL

534+00

535+00

536+00

537+00

538+00

R/L STH 100

STH 100 (W. BROWN DEER ROAD)

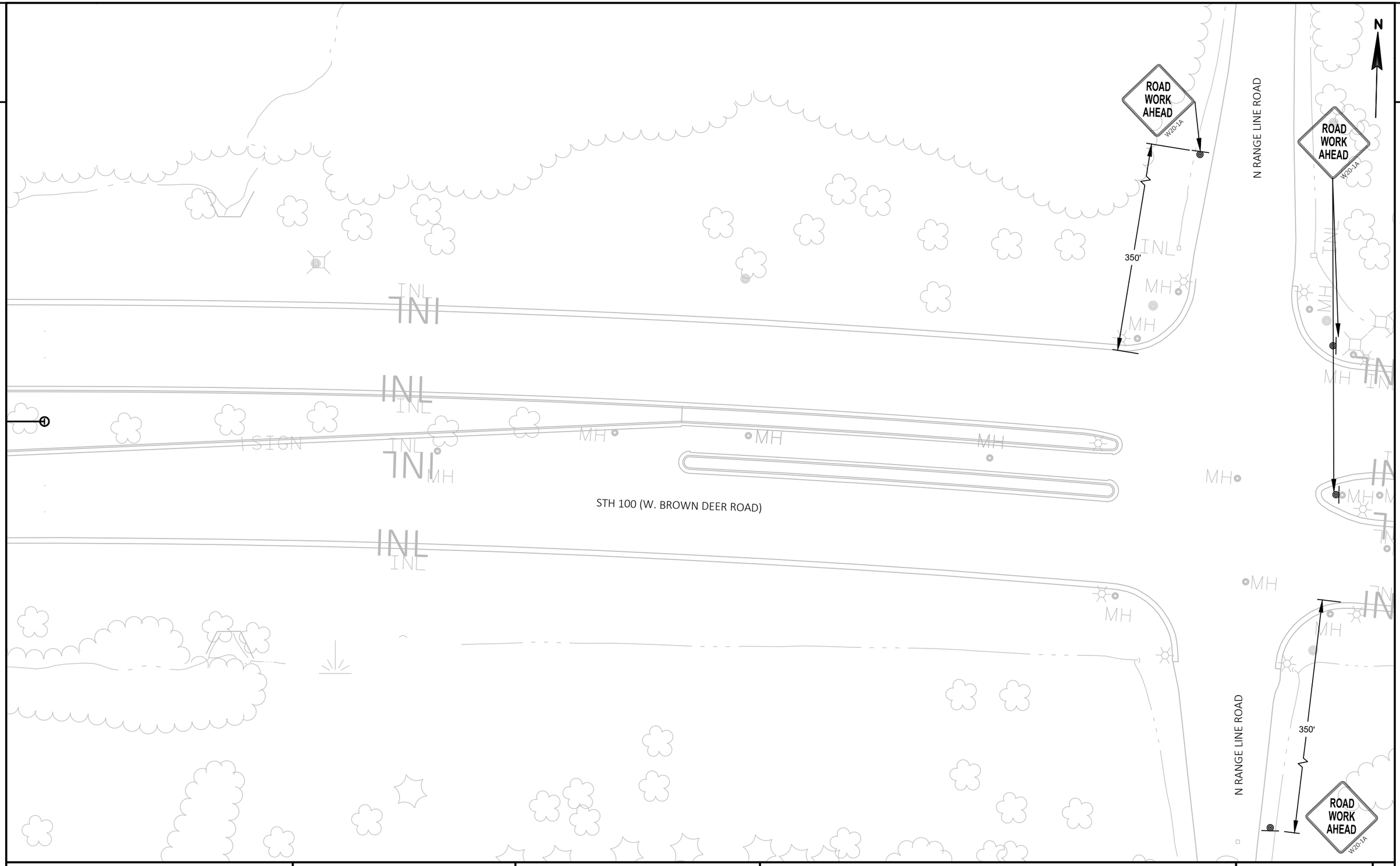
PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - WINTER SHUTDOWN STAGE 1-2	SHEET 479	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026006_S1.DWG
LAYOUT NAME - 026026

PLOT DATE : 7/22/2021 9:15 AM PLOT BY : JOE MAAS PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



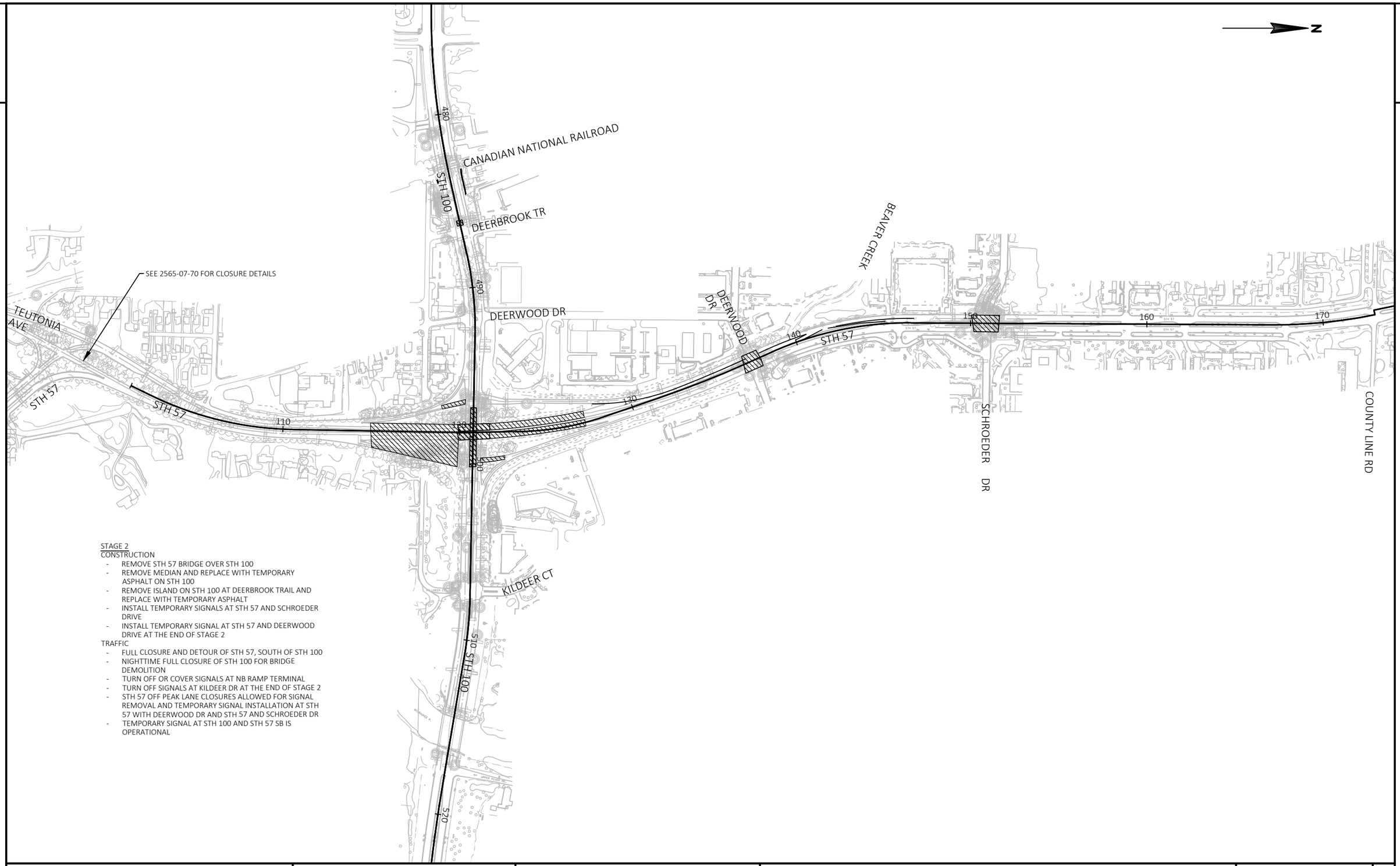
2

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - WINTER SHUTDOWN STAGE 1-2	SHEET 480	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026006_S1.DWG
LAYOUT NAME - 026027

PLOT DATE : 7/22/2021 9:15 AM PLOT BY : JOE MAAS PLOT NAME : PLOT SCALE : 1 IN:40 FT

2



STAGE 2
CONSTRUCTION
- REMOVE STH 57 BRIDGE OVER STH 100
- REMOVE MEDIAN AND REPLACE WITH TEMPORARY ASPHALT ON STH 100
- REMOVE ISLAND ON STH 100 AT DEERBROOK TRAIL AND REPLACE WITH TEMPORARY ASPHALT
- INSTALL TEMPORARY SIGNALS AT STH 57 AND SCHROEDER DRIVE
- INSTALL TEMPORARY SIGNAL AT STH 57 AND DEERWOOD DRIVE AT THE END OF STAGE 2

TRAFFIC
- FULL CLOSURE AND DETOUR OF STH 57, SOUTH OF STH 100
- NIGHTTIME FULL CLOSURE OF STH 100 FOR BRIDGE DEMOLITION
- TURN OFF OR COVER SIGNALS AT NB RAMP TERMINAL
- TURN OFF SIGNALS AT KILDEER DR AT THE END OF STAGE 2
- STH 57 OFF PEAK LANE CLOSURES ALLOWED FOR SIGNAL REMOVAL AND TEMPORARY SIGNAL INSTALLATION AT STH 57 WITH DEERWOOD DR AND STH 57 AND SCHROEDER DR
- TEMPORARY SIGNAL AT STH 100 AND STH 57 SB IS OPERATIONAL

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	STAGE 2 OVERVIEW	SHEET 481	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026100_S2O.DWG
LAYOUT NAME - 026101
PLOT DATE : 4/20/2021 2:06 PM
PLOT BY : TONY BUBLITZ
PLOT NAME :
PLOT SCALE : 1 IN:500 FT
WISDOT/CADDS SHEET 42

2

MARKING WORD PAINT

ONLY

MARKING ARROW PAINT

MARKING REMOVAL SPECIAL MARKING

ONLY ONLY ONLY
R3-8R
54"X30"

50'

11'

10'

126+50.00

N

497+00

60'

STH 100 (W. BROWN DEER ROAD)

R/L STH 100

498+00

P4W

BRIDGE OUT
R11-2B
48"X30"

121+00

122+00

123+00

124+00

125+00

126+00

R/L STH 57

STH 57 (N. GREEN BRAY ROAD)

BRIDGE OUT
R11-2B
48"X30"

W01-4BR

499+00

R11-2
48" X 30"

ROAD CLOSED

TYPE III BARRICADE

R11-2R
48" X 30"

CLOSED

TYPE III BARRICADE

120+75.00

500+00

END ROAD WORK
G20-2A
48"X24"

2

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 2	SHEET 482	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026101_S2.DWG
LAYOUT NAME - 026150

PLOT DATE : 4/20/2021 10:34 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

132+25.00

126+50.00

50'

WO1-6
48" X 24"
TYPE III BARRICADE

127+00

128+00

129+00

130+00

131+00

132+00

STH 57 (N. GREEN BAY ROAD)

R/L STH 57

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 2	SHEET 483	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026101_S2.DWG
LAYOUT NAME - 026151

PLOT DATE : 4/20/2021 10:34 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

ROAD WORK AHEAD
W20-1A

350'

R11-2L
48" X 30"
LANE CLOSED

TYPE III BARRICADE

138+00.00

2+00
133+00
134+00
135+00
136+00
137+00
138+00

R/L STH 57

STH 57 (N. GREEN BAY ROAD)

N. DEERWOOD DRIVE

350'

ROAD WORK AHEAD
W20-1A

132+25.00

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 2	SHEET 484	E

2

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

BEGIN LEFT TURN LANE
R3-20LL
24"X36"

320'
MERGING
TAPER

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

25'

138+00
139+00
140+00
141+00
142+00
143+00
144+00

R/L STH 57

STH 57 (N. GREEN BAY ROAD)

STH 57

INL
TNI
MH

50'

ROAD WORK AHEAD
W20-1A

138+00.00

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 2	SHEET 485	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026101_S2.DWG
LAYOUT NAME - 026153

PLOT DATE : 4/20/2021 10:34 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

350'

W04-2L

SIGN

149+50.00

N

SIGN

HA

POST

MH

MH

MH

MH

STH 57

INL

INL

INL

2

ROAD WORK AHEAD W20-1A

350'

W SCHROEDER DR

LEFT LANE CLOSED AHEAD W20-5A

350'

350'

ROAD WORK AHEAD W20-1A

N

155+25.00

150+00 151+00 152+00 153+00 154+00 155+00

STH 57 (N. GREEN BAY ROAD)

350'

W SCHROEDER DR

ROAD WORK AHEAD W20-1A

149+50.00

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 2	SHEET 487	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026101_S2.DWG
LAYOUT NAME - 026155

PLOT DATE : 4/20/2021 10:35 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

N 51st ST

S

S

W

464+00

465+00

466+00

467+00

468+00

469+00

470+00

R/L STH 100

STH 100 (W. BROWN DEER ROAD)

SIGN

ROAD WORK AHEAD

W20-1A

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 2	SHEET 488	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026102_S2.DWG
LAYOUT NAME - 026160

PLOT DATE : 7/22/2021 11:15 AM PLOT BY : JOE MAAS PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

ROAD WORK AHEAD
W20-1A

N

N ARBON DR

350'

END ROAD WORK
G20-2A
48"X24"

470+00

471+00

472+00

473+00

R/L STH 100

474+00

475+00

STH 100 (W. BROWN DEER ROAD)

PKNG

END ROAD WORK
G20-2A
48"X24"

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 2	SHEET 489	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026102_S2.DWG
LAYOUT NAME - 026161

PLOT DATE : 7/22/2021 11:16 AM PLOT BY : JOE MAAS PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

ROAD WORK AHEAD
W20-1A

350'

N ARBON DR

END ROAD WORK
G20-2A
48"X24"

SPEED LIMIT 40
R2-1

BEGIN LEFT TURN LANE
R3-20L
24"X36"

W10-1

ARBON DR

R4-7

N

476+00

477+00

478+00

479+00

480+00

481+00

P4Y

R/L STH 100

STH 100 (W. BROWN DEER ROAD)

BEGIN LEFT TURN LANE
R3-20L
24"X36"

350'

ROAD WORK AHEAD
W20-1A

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 2	SHEET 490	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026102_S2.DWG
LAYOUT NAME - 026162

PLOT DATE : 7/22/2021 11:16 AM PLOT BY : JOE MAAS PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

ROAD WORK AHEAD
W20-1A

END ROAD WORK
G20-2A
48"X24"

N

BEGIN LEFT TURN LANE
R3-20L
24"X36"

350'

COMPLETE WORK UNDER OFF-PEAK HOUR LANE CLOSURES

50'

482+00

483+00

484+00

485+00

486+00

487+00

R/L STH 100

CANADIAN NATIONAL RAILWAY

P4Y

STH 100 (W. BROWN DEER ROAD)

BEGIN LEFT TURN LANE
R3-20L
24"X36"

END ROAD WORK
G20-2A
48"X24"

N. DEERBROOK TRAIL

ROAD WORK AHEAD
W20-1A

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 2	SHEET 491	E

2

2

ROAD WORK AHEAD
W20-1A

END ROAD WORK
G20-2A
48"X24"

N

BEGIN LEFT TURN LANE
R3-20L
24"X36"

350'

P4Y

R/L STH 100

487+00

488+00

489+00

490+00

491+00

492+00

493+00

P4Y

STH 100 (W. BROWN DEER ROAD)

N. DEERWOOD DRIVE

350'

ROAD WORK AHEAD
W20-1A

END ROAD WORK
G20-2A
48"X24"

ROAD WORK AHEAD
W20-1A

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 2	SHEET 492	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026102_S2.DWG
LAYOUT NAME - 026164
PLOT DATE : 7/22/2021 11:17 AM PLOT BY : JOE MAAS PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

N

STH 57 (N. GREEN BAY ROAD)

STH 100 (W. BROWN DEER ROAD)

BEGIN LEFT TURN LANE
R3-20L
24"X36"

WO1-6
48" X 24"
TYPE III BARRICADE

BRIDGE OUT
R11-2B
48"X30"

R3-2
24"X24"

493+00 494+00 495+00 496+00 497+00 498+00 499+

122+00 121+00 120+00 119+00

R/L STH 100

R/L STH 100

12' 12' 12' 12'

10'

RAMP CLOSED AHEAD
W20-3A

SIGN

END ROAD WORK
G20-2A
48"X24"

R11-2R
48" X 30"
RAMP CLOSED
TYPE III BARRICADE

BRIDGE OUT
R11-2B
48"X30"

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 2	SHEET 493	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026102_S2.DWG
LAYOUT NAME - 026165
PLOT DATE : 7/22/2021 11:29 AM PLOT BY : JOE MAAS PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

N

INL

R11-2R
48" X 30"
RAMP CLOSED
TYPE III BARRICADE

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

RAMP CLOSED AHEAD
W20-53A

ROAD WORK AHEAD
W20-1A

50'

499+00

500+00

501+00

502+00

503+00

504+00

R/L STH 100

STH 100 (W. BROWN DEER ROAD)

R3-2
24"X24"

BEGIN LEFT TURN LANE
R3-20L
24"X36"

R11-2R
48" X 30"
RAMP CLOSED
TYPE III BARRICADE

NORTHBOUND WIS 57 CLOSED SOUTH OF TEUTONIA AVENUE. SEE TRAFFIC CONTROL DETAILS IN ID 2565-07-70

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 2	SHEET 494	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026102_S2.DWG
LAYOUT NAME - 026166

PLOT DATE : 7/22/2021 11:29 AM PLOT BY : JOE MAAS PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

504+50.00

ROAD WORK AHEAD W20-1A

350'

INL

INL

N. KILDEER COURT

W

N

510+25.00

505+00

506+00

507+00

508+00

509+00

510+00

R/L STH 100

STH 100 (W. BROWN DEER ROAD)

350'

ROAD WORK AHEAD W20-1A

504+50.00

ER CT

510+25.00

2

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 2	SHEET 495	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026102_S2.DWG
LAYOUT NAME - 026167

PLOT DATE : 4/23/2021 9:44 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

510+25.00

516+00.00

2

N

MILWAUKEE RIVER

510+00

511+00

512+00

513+00

514+00

515+00

516+00

R/L STH 100

STH 100 (W. BROWN DEER ROAD)

MILWAUKEE R.

510+25.00

516+00.00

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 2	SHEET 496	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026102_S2.DWG
LAYOUT NAME - 026168

PLOT DATE : 4/23/2021 9:44 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

516+00.00

ROAD WORK AHEAD

W20-1A

350'

N. UPPER RIVER ROAD

MH

INL

SIGN

N

521+75.00

2

516+00

517+00

518+00

519+00

520+00

521+00

522+

R/L STH 100

STH 100 (W. BROWN DEER ROAD)

MH

INL

516+00.00

521+75.00

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 2	SHEET 497	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026102_S2.DWG
LAYOUT NAME - 026169

PLOT DATE : 4/23/2021 9:44 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

521+75.00

527+50.00

2

N

522+00

523+00

524+00

525+00

526+00

527+00

R/L STH 100

STH 100 (W. BROWN DEER ROAD)

521+75.00

527+50.00

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 2	SHEET 498	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026102_S2.DWG
LAYOUT NAME - 026170

PLOT DATE : 4/23/2021 9:45 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

527+50.00

533+20.05

533+50.00

N

MH

MH

STH 100

INL

528+00

529+00

530+00

531+00

532+00

533+00

R/L STH 100

STH 100

STH 100 (W. BROWN DEER ROAD)

INL

INL

INL

END
ROAD WORK

G20-2A
48"X24"

527+50.00

533+20.05

533+50.00

2

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 2	SHEET 499	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026102_S2.DWG
LAYOUT NAME - 026171

PLOT DATE : 4/23/2021 9:45 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

MH

INL

STH 100 (W. BROWN DEER ROAD)

534+00

535+00

536+00

537+00

538+00

R/L STH 100

533+50.00

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 2	SHEET 500	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026102_S2.DWG
LAYOUT NAME - 026172

PLOT DATE : 4/23/2021 9:45 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

ROAD WORK AHEAD W20-1A

ROAD WORK AHEAD W20-1A

N RANGE LINE ROAD

350'

INL

MH

ISIGN

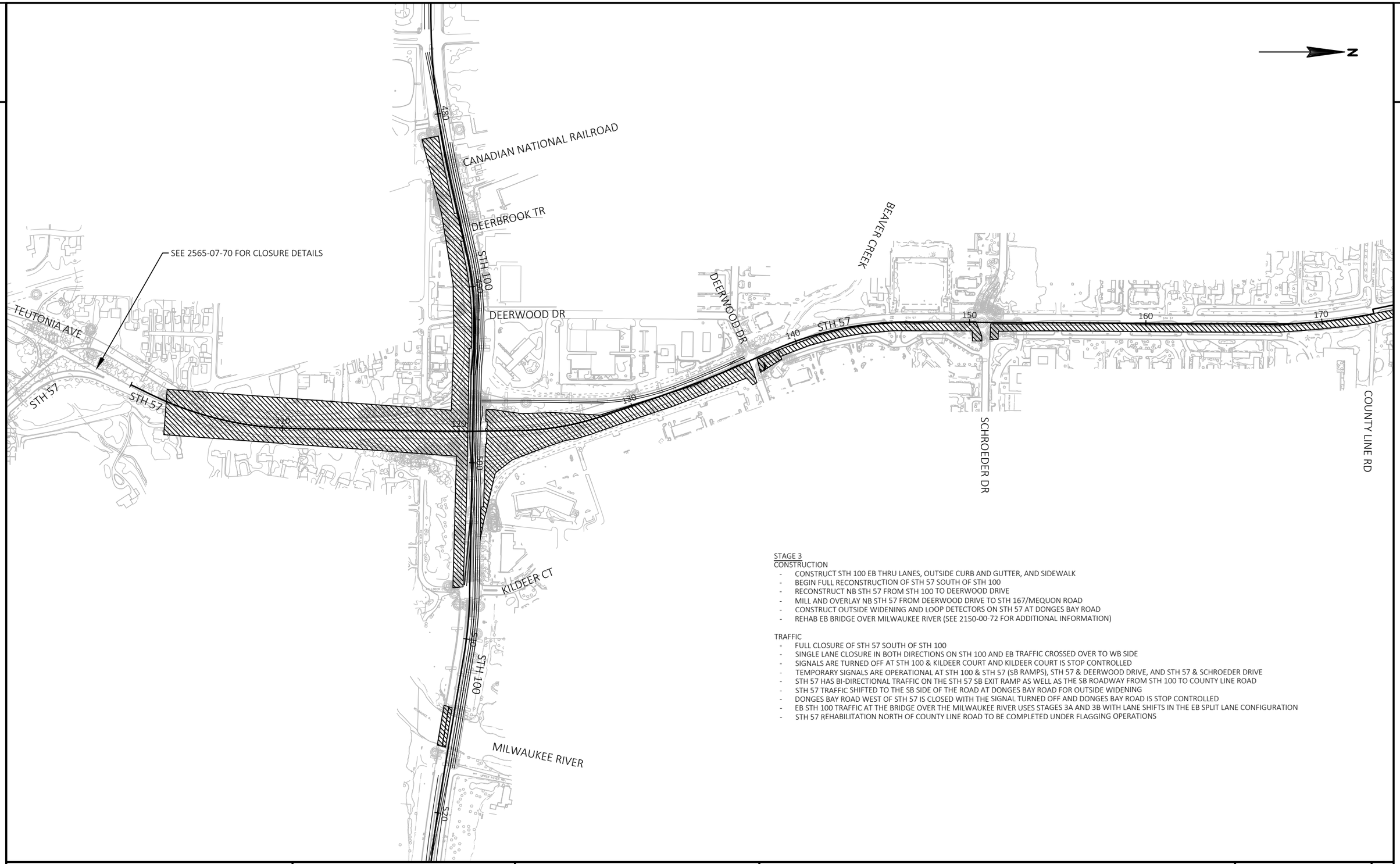
N RANGE LINE ROAD

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 2	SHEET 501	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026102_S2.DWG
LAYOUT NAME - 026173

PLOT DATE : 4/23/2021 9:45 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42



STAGE 3

CONSTRUCTION

- CONSTRUCT STH 100 EB THRU LANES, OUTSIDE CURB AND GUTTER, AND SIDEWALK
- BEGIN FULL RECONSTRUCTION OF STH 57 SOUTH OF STH 100
- RECONSTRUCT NB STH 57 FROM STH 100 TO DEERWOOD DRIVE
- MILL AND OVERLAY NB STH 57 FROM DEERWOOD DRIVE TO STH 167/MEQUON ROAD
- CONSTRUCT OUTSIDE WIDENING AND LOOP DETECTORS ON STH 57 AT DONGES BAY ROAD
- REHAB EB BRIDGE OVER MILWAUKEE RIVER (SEE 2150-00-72 FOR ADDITIONAL INFORMATION)

TRAFFIC

- FULL CLOSURE OF STH 57 SOUTH OF STH 100
- SINGLE LANE CLOSURE IN BOTH DIRECTIONS ON STH 100 AND EB TRAFFIC CROSSED OVER TO WB SIDE
- SIGNALS ARE TURNED OFF AT STH 100 & KILDEER COURT AND KILDEER COURT IS STOP CONTROLLED
- TEMPORARY SIGNALS ARE OPERATIONAL AT STH 100 & STH 57 (SB RAMPS), STH 57 & DEERWOOD DRIVE, AND STH 57 & SCHROEDER DRIVE
- STH 57 HAS BI-DIRECTIONAL TRAFFIC ON THE STH 57 SB EXIT RAMP AS WELL AS THE SB ROADWAY FROM STH 100 TO COUNTY LINE ROAD
- STH 57 TRAFFIC SHIFTED TO THE SB SIDE OF THE ROAD AT DONGES BAY ROAD FOR OUTSIDE WIDENING
- DONGES BAY ROAD WEST OF STH 57 IS CLOSED WITH THE SIGNAL TURNED OFF AND DONGES BAY ROAD IS STOP CONTROLLED
- EB STH 100 TRAFFIC AT THE BRIDGE OVER THE MILWAUKEE RIVER USES STAGES 3A AND 3B WITH LANE SHIFTS IN THE EB SPLIT LANE CONFIGURATION
- STH 57 REHABILITATION NORTH OF COUNTY LINE ROAD TO BE COMPLETED UNDER FLAGGING OPERATIONS

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	STAGE 3 OVERVIEW	SHEET 502	E

2

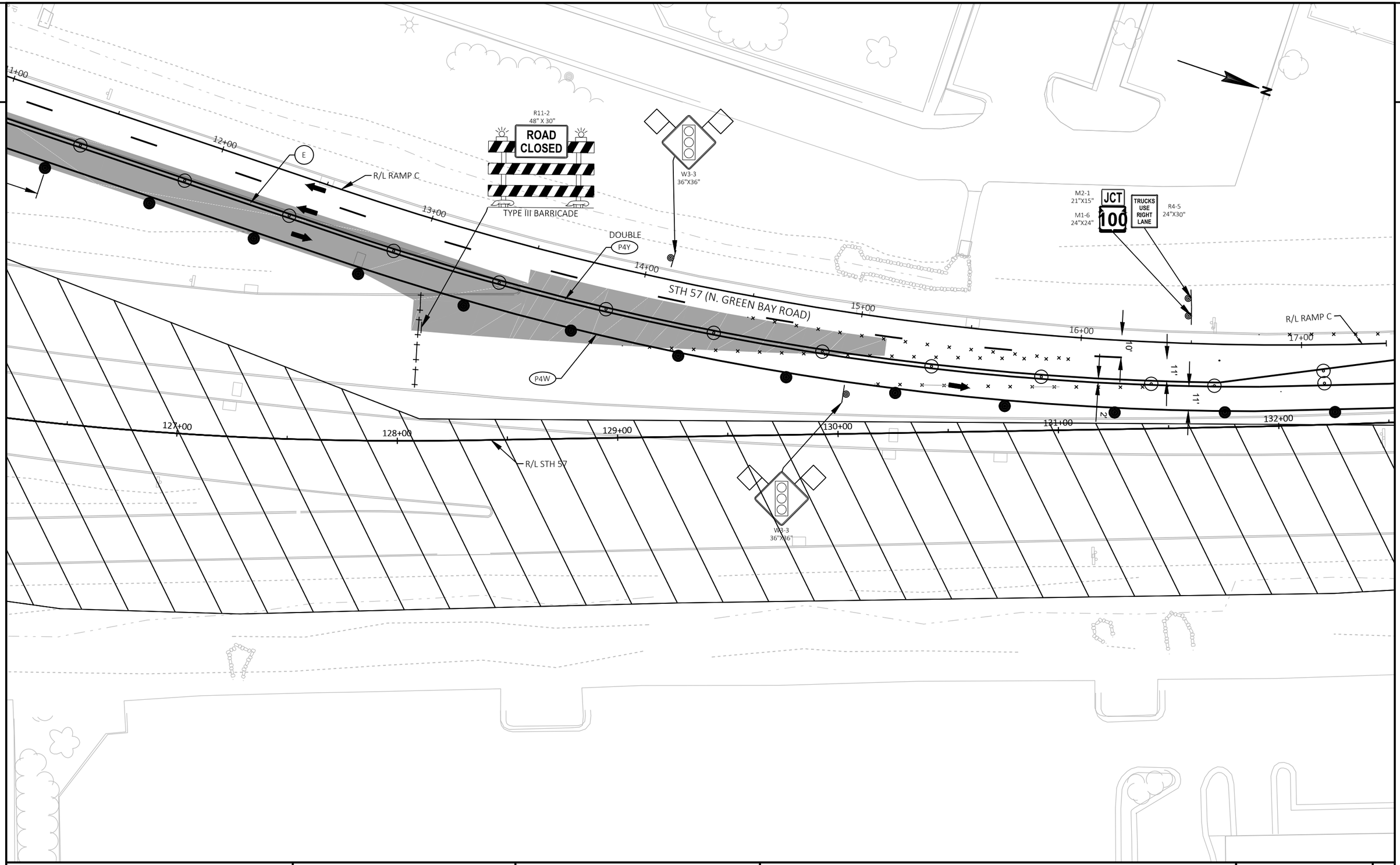
2' LINE 6' GAP
P4W
PSL
P4W
7+00
8+00
R/L RAMP C
50'
9+00
10+00
10'
10'
11'
11+00
E
M3-2 24"X12"
EAST WEST
M3-4 24"X12"
M1-6 24"X24"
100 100
M1-6 24"X24"
M6-1 21"X21"
M6-1 21"X21"
W06-3
R3-8R 54"X30"
ONLY ONLY ONLY
M3-2 24"X12"
EAST WEST
M3-4 24"X12"
M1-6 24"X24"
100 100
M1-6 24"X24"
M5-1L 21"X21"
M5-1R 21"X21"
50'
N
STH 100 (W. BROWN DEER ROAD)
497+00
498+00
121+00
122+00
123+00
124+00
125+00
126+00
R/L STH 100
R/L STH 57
STH 57 (N. GREEN BAY ROAD)
499+00
500+00

2

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 3	SHEET 503	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026201_53.DWG
LAYOUT NAME - 026210
PLOT DATE : 4/20/2021 1:57 PM
PLOT BY : TONY BUBLITZ
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 3	SHEET 504	E

2

2

BEGIN LEFT TURN LANE
R3-20L
24"X36"

R/L RAMP C

17+00

P4Y

P4W

10'

11'

11'

STH 57 (N. GREEN BAY ROAD)

12+00

133+00

134+00

135+00

136+00

137+00

138+00

R/L STH 57

ROAD WORK AHEAD
W20-1A

T8W

T4W

T4Y

350'

STOP
R1-1F
30"X30"

N. DEERWOOD DRIVE

END ROAD WORK
G20-2A
48"X24"

MARKING REMOVAL
SPECIAL MARKING

11'

10'

11'

STOP
R1-1F
30"X30"

P4Y

P8W

PSL

TSL

P8W

P4W

W06-3

NO TURN ON RED
R10-11B
24"X24"

W06-4
12"X18"

STOP
R1-1F
30"X30"

R11-2
48" X 30"

ROAD CLOSED

TYPE III BARRICADE

11'

11'

11'

TEMPORARY PEDESTRIAN CURB RAMP

TEMPORARY PEDESTRIAN SURFACE PLATE

350'

STOP
R1-1F
30"X30"

CLOSE RIGHT LANE WHILE WORK IS BEING COMPLETED ALONG DEERWOOD DRIVE

N. DEERWOOD DRIVE

END ROAD WORK
G20-2A
48"X24"

ROAD WORK AHEAD
W20-1A

NOTE: PAVEMENT REHABILITATION AND LOOP DETECTOR REPLACEMENT WORK WITHIN THE INTERSECTION TO BE COMPLETED UNDER NIGHT-TIME FULL CLOSURE OF THE EAST INTERSECTION APPROACH.

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 3	SHEET 505	E

2

2

N

MATCHLINE STA 142+85.00

MATCHLINE STA 138+00.00

INL

INL

INL

INL MH

MH

STH 57

R/L STH 57

T4W

T4Y

T4W

12'

10'

11'

2'

139+00

140+00

141+00

142+00

+00

ONLY

R3-8A
36"X30"

BEGIN LEFT TURN LANE

R3-20L
24"X36"

W9C-3

TEMPORARY PEDESTRIAN CURB RAMP AND
TEMPORARY PEDESTRIAN SURFACE PLATE

R11-2
48" X 30"

ROAD CLOSED

TYPE III BARRICADE

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 3 & 4A	SHEET 506	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026202_S3.DWG
LAYOUT NAME - 026314

PLOT DATE : 3/24/2021 5:38 PM PLOT BY : NICHOLAS BOBINSKI, PE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

MATCHLINE STA 148+15.00

MATCHLINE STA 142+85.00

W1-6
48"X24"

RIGHT TURN ONLY
R3-5R
24"X30"

W1-6
48"X24"

BEGIN LEFT TURN LANE
R3-20L
24"X36"

T4Y

T4W

T4W

T4Y

STH 57

R/L STH 57

143+00

144+00

145+00

146+00

147+00

148+00

12'

11'

11'

12'

2'

10'

R3-8A
36"X30"
ONLY

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

INL

MH

SIGN

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 3 & 4A	SHEET 507	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026202_S3.DWG
LAYOUT NAME - 026315

PLOT DATE : 3/24/2021 5:39 PM PLOT BY : NICHOLAS BOBINSKI, PE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

ROAD WORK AHEAD
W20-1A

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

360'

SCHROEDER DR

END ROAD WORK
G20-2A
48"X24"

N

MATCHLINE STA 153+45.00

RIGHT TURN ONLY
R3-53R
24"X30"

W06-3

W6-4
48"X36"

T4W
T4Y

STH 57

12'
2'
10'
11'

TSL

149+00
150+00
151+00
152+00
153+00

PEDESTRIAN BARRICADE (TYP)

TEMPORARY PEDESTRIAN CURB RAMP AND
TEMPORARY PEDESTRIAN SURFACE PLATE

R/L STH 57

STOP HERE ON RED
R10-6
24"X36"

PAVEMENT REHABILITATION AND LOOP DETECTOR REPLACEMENT WORK WITHIN THE INTERSECTION TO BE COMPLETED UNDER NIGHT-TIME FULL CLOSURE OF THE EAST INTERSECTION APPROACH.

SIGN

MATCHLINE STA 148+15.00

END ROAD WORK
G20-2A
48"X24"

ROAD WORK AHEAD
W20-1A

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 3 & 4A	SHEET 508	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026202_S3.DWG
LAYOUT NAME - 026316

PLOT DATE : 3/24/2021 5:39 PM PLOT BY : NICHOLAS BOBINSKI, PE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

MATCHLINE STA 158+75.00

MATCHLINE STA 153+45.00

N

W1-6
48"X24"

R3-8A
36"X30"

BEGIN LEFT TURN LANE
R3-20L
24"X36"

RIGHT TURN ONLY
R3-53R
24"X30"

BEGIN LEFT TURN LANE
R3-20L
24"X36"

W6-3

W6-4
48"X36"

T4W

T4W

T4Y

STH 57

INL

MH

SIGN

12'

2'

10'

11'

154+00

155+00

156+00

157+00

158+00

R/L STH 57

R3-8A
36"X30"

SERVICE RD

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

MAINTAIN ONE ACCESS TO SERVICE RD
AT ALL TIMES

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 3 & 4A	SHEET 509	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026202_S3.DWG
LAYOUT NAME - 026317

PLOT DATE : 3/24/2021 5:39 PM PLOT BY : NICHOLAS BOBINSKI, PE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

DEER RUN DR

MH

INL

W6-4
48"X36"

T4W

T4Y

T4W

STH 57

12'

2'

10'

11'

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

R3-8A
36"X30"
ONLY

W1-6
48"X24"

RIGHT TURN ONLY
R3-53R
24"X30"

R3-2
24"X24"

BEGIN LEFT TURN LANE
R3-20L
24"X36"

T4Y

T4W

12'

12'

11'

TSL

159+00

160+00

161+00

162+00

163+00

164+00

MATCHLINE STA 164+05.00

STOP
R1-1
36"X36"

MAINTAIN ONE ACCESS TO SERVICE RD
AT ALL TIMES

W10-3

R/L STH 57

SERVICE RD

SIGN

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

MATCHLINE STA 158+75.00

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 3 & 4A	SHEET 510	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026202_S3.DWG
LAYOUT NAME - 026318

PLOT DATE : 3/24/2021 5:40 PM PLOT BY : NICHOLAS BOBINSKI, PE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

MATCHLINE STA 169+35.00

MATCHLINE STA 164+05.00

R11-2
48" X 30"

ROAD CLOSED

TYPE III BARRICADE

W20-3

BEGIN LEFT TURN LANE

R3-20L
24"X36"

T4Y

T4W

STH 57

12'

12'

11'

165+00

166+00

167+00

168+00

169+00

INL

MH

SERVICE RD

R/L STH 57

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 3 & 4A	SHEET 511	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026202_S3.DWG
LAYOUT NAME - 026319

PLOT DATE : 3/24/2021 5:40 PM PLOT BY : NICHOLAS BOBINSKI, PE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

MATCHLINE STA 174+65.00

MATCHLINE STA 169+35.00

COUNTY LINE RD

N

ROAD WORK AHEAD
W20-1A

END ROAD WORK
G20-2A
48"X24"

W6-4
48"X36"

R3-8A
36"X30"
ONLY

T4Y

T4W

STH 57

R/L STH 57

170+00

171+00

172+00

173+00

174+00

TSL

11'

12'

10'

2'

1'

MH

SIGN

INL

R11-2
48" X 30"
ROAD CLOSED

TYPE III BARRICADE

STOP
R1-1
36"X36"

MAX. 11' WIDTH
W12-52
48"X48"

CONSTRUCT COUNTY LINE RD UNDER FLAGGING OPERATIONS.
SEE SDD "TRAFFIC CONTROL FOR LANE CLOSURE
WITH FLAGGING OPERATIONS".

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 3 & 4A	SHEET 512	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026202_S3.DWG
LAYOUT NAME - 026320
PLOT DATE : 3/24/2021 5:40 PM
PLOT BY : NICHOLAS BOBINSKI, PE
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

N

MATCHLINE STA 179+95.00

HIAWATHA DR

WHEN FLAGGING IN THIS AREA INCLUDE A FLAGGER AND ADVANCE SIGNING ON HIAWATHA DR

MH

W06-3

ONLY

R3-8A
36"X30"

T4W

T4Y

T4W

CEDARBURG RD

175+00

176+00

177+00

178+00

179+00

11'

R/L STH 57

SIGN

SIGN

RIGHT SHOULDER CLOSED

W21-5A

STA 177+00 TO STA 282+00

RESURFACING WORK TO BE COMPLETED UNDER FLAGGING OPERATIONS.
SEE SDD "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATIONS".
REPLACE CENTERLINE AND EDGELINE WITH SAME DAY PAVEMENT MARKING.
TRAFFIC CONTROL CONFIGURATION SHOWN ON THIS SHEET ARE
WHEN FLAGGING OPERATIONS ARE NOT IN EFFECT.

MATCHLINE STA 174+65.00

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 3 & 4A	SHEET 513	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026202_S3.DWG
LAYOUT NAME - 026321

PLOT DATE : 3/24/2021 5:41 PM PLOT BY : NICHOLAS BOBINSKI, PE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

MATCHLINE STA 185+25.00

R/L STH 57

80+00 181+00 182+00 CEDARBURG RD 183+00 184+00 185+00

RESURFACING WORK TO BE COMPLETED UNDER FLAGGING OPERATIONS.
SEE SDD "TRAFFIC CONTROL FOR LANE CLOSURE
WITH FLAGGING OPERATIONS".
REPLACE CENTERLINE AND EDGELINE WITH SAME DAY
PAVEMENT MARKING.
TRAFFIC CONTROL CONFIGURATION SHOWN ON THIS
SHEET ARE WHEN FLAGGING OPERATIONS ARE
NOT IN EFFECT.

SIGN

MATCHLINE STA 179+95.00

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 3 & 4A	SHEET 514	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026202_S3.DWG
LAYOUT NAME - 026322
PLOT DATE : 3/24/2021 5:41 PM PLOT BY : NICHOLAS BOBINSKI, PE PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

INL

SIGN

MH

R/L STH 57

CEDARBURG RD

186+00

187+00

188+00

189+00

190+00

MATCHLINE STA 190+55.00

MH

MH

SIGN

SIGN

RESURFACING WORK TO BE COMPLETED UNDER FLAGGING OPERATIONS.
SEE SDD "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATIONS".
REPLACE CENTERLINE AND EDGELINE WITH SAME DAY PAVEMENT MARKING.
TRAFFIC CONTROL CONFIGURATION SHOWN ON THIS SHEET ARE WHEN FLAGGING OPERATIONS ARE NOT IN EFFECT.

RIGHT SHOULDER CLOSED

W21-5A

MATCHLINE STA 185+25.00

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 3 & 4A	SHEET 515	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026202_S3.DWG
LAYOUT NAME - 026323

PLOT DATE : 3/24/2021 5:41 PM PLOT BY : NICHOLAS BOBINSKI, PE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

WILLOW RD

N

MATCHLINE STA 195+85.00

R/L STH 57

191+00 192+00 193+00 194+00 CEDARBURG RD 195+00

RESURFACING WORK TO BE COMPLETED UNDER FLAGGING OPERATIONS.
SEE SDD "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATIONS".
REPLACE CENTERLINE AND EDGELINE WITH SAME DAY PAVEMENT MARKING.
TRAFFIC CONTROL CONFIGURATION SHOWN ON THIS SHEET ARE WHEN FLAGGING OPERATIONS ARE NOT IN EFFECT.

SIGN

MATCHLINE STA 190+55.00

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 3 & 4A	SHEET 516	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026202_S3.DWG
LAYOUT NAME - 026324
PLOT DATE : 3/24/2021 5:42 PM PLOT BY : NICHOLAS BOBINSKI, PE PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

ELMDALE RD

WHEN FLAGGING IN THIS AREA INCLUDE A FLAGGER AND ADVANCE SIGNING ON ELMDALE RD

SIGN

SIGN

SIGN

MH

R/L STH 57

CEDARBURG RD

196+00

197+00

198+00

199+00

200+00

201+00

N

MATCHLINE STA 201+15.00

RESURFACING WORK TO BE COMPLETED UNDER FLAGGING OPERATIONS.
SEE SDD "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATIONS".
REPLACE CENTERLINE AND EDGELINE WITH SAME DAY PAVEMENT MARKING.
TRAFFIC CONTROL CONFIGURATION SHOWN ON THIS SHEET ARE WHEN FLAGGING OPERATIONS ARE NOT IN EFFECT.

RIGHT SHOULDER CLOSED

W21.5A

MATCHLINE STA 195+85.00

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 3 & 4A	SHEET 517	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026202_S3.DWG
LAYOUT NAME - 026325

PLOT DATE : 3/24/2021 5:42 PM PLOT BY : NICHOLAS BOBINSKI, PE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

MATCHLINE STA 206+45.00

R/L STH 57

CEDARBURG RD

202+00 203+00 204+00 205+00 206+00

RESURFACING WORK TO BE COMPLETED UNDER FLAGGING OPERATIONS.
SEE SDD "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATIONS".
REPLACE CENTERLINE AND EDGELINE WITH SAME DAY PAVEMENT MARKING.
TRAFFIC CONTROL CONFIGURATION SHOWN ON THIS SHEET ARE WHEN FLAGGING OPERATIONS ARE NOT IN EFFECT.

MATCHLINE STA 201+15.00

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 3 & 4A	SHEET 518	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026202_S3.DWG
LAYOUT NAME - 026326
PLOT DATE : 3/24/2021 5:42 PM PLOT BY : NICHOLAS BOBINSKI, PE PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

KATHLEEN LN

WHEN FLAGGING IN THIS AREA INCLUDE A FLAGGER AND ADVANCE SIGNING ON KATHLEEN LN

R/L STH 57

CEDARBURG RD

207+00 208+00 209+00 210+00 211+00

MATCHLINE STA 211+75.00

MATCHLINE STA 206+45.00

RIGHT SHOULDER CLOSED W21-5A

RESURFACING WORK TO BE COMPLETED UNDER FLAGGING OPERATIONS.
SEE SDD "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATIONS".
REPLACE CENTERLINE AND EDGELINE WITH SAME DAY PAVEMENT MARKING.
TRAFFIC CONTROL CONFIGURATION SHOWN ON THIS SHEET ARE WHEN FLAGGING OPERATIONS ARE NOT IN EFFECT.

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 3 & 4A	SHEET 519	E

2

2

WESTFIELD RD

MATCHLINE STA 217+05.00

WHEN FLAGGING IN THIS AREA INCLUDE A FLAGGER AND ADVANCE SIGNING ON WESTFIELD RD

R/L STH 57

CEDARBURG RD

212+00 213+00 214+00 215+00 216+00 217+0

W01-4L

RESURFACING WORK TO BE COMPLETED UNDER FLAGGING OPERATIONS.
SEE SDD "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATIONS".
REPLACE CENTERLINE AND EDGELINE WITH SAME DAY PAVEMENT MARKING.
TRAFFIC CONTROL CONFIGURATION SHOWN ON THIS SHEET ARE WHEN FLAGGING OPERATIONS ARE NOT IN EFFECT.

MATCHLINE STA 211+75.00

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 3 & 4A	SHEET 520	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026202_S3.DWG
LAYOUT NAME - 026328

PLOT DATE : 3/24/2021 5:43 PM PLOT BY : NICHOLAS BOBINSKI, PE PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

MATCHLINE STA 222+35.00

R/L STH 57

T4W

T4Y

CEDARBURG RD

218+00

219+00

220+00

221+00

222+00

POST

POST

POST

SIGN

WO1-6
48"X24"

RESURFACING WORK TO BE COMPLETED UNDER FLAGGING OPERATIONS.
SEE SDD "TRAFFIC CONTROL FOR LANE CLOSURE
WITH FLAGGING OPERATIONS".
REPLACE CENTERLINE AND EDGELINE WITH SAME DAY
PAVEMENT MARKING.
TRAFFIC CONTROL CONFIGURATION SHOWN ON THIS
SHEET ARE WHEN FLAGGING OPERATIONS ARE
NOT IN EFFECT.

RIGHT
SHOULDER
CLOSED
W21-5A

MATCHLINE STA 217+05.00

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 3 & 4A	SHEET 521	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026202_S3.DWG
LAYOUT NAME - 026329
PLOT DATE : 3/24/2021 5:43 PM PLOT BY : NICHOLAS BOBINSKI, PE PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

MATCHLINE STA 227+65.00

N

W01-4L

R/L STH 57

T4W

T4Y

CEDARBURG RD

223+00 224+00 225+00 226+00 227+00

RESURFACING WORK TO BE COMPLETED UNDER FLAGGING OPERATIONS.
SEE SDD "TRAFFIC CONTROL FOR LANE CLOSURE
WITH FLAGGING OPERATIONS".
REPLACE CENTERLINE AND EDGELINE WITH SAME DAY
PAVEMENT MARKING.
TRAFFIC CONTROL CONFIGURATION SHOWN ON THIS
SHEET ARE WHEN FLAGGING OPERATIONS ARE
NOT IN EFFECT.

MH

MATCHLINE STA 222+35.00

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 3 & 4A	SHEET 522	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026202_S3.DWG
LAYOUT NAME - 026330

PLOT DATE : 3/24/2021 5:44 PM PLOT BY : NICHOLAS BOBINSKI, PE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

MATCHLINE STA 232+95.00

MATCHLINE STA 227+65.00

N

DONGES BAY RD

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

T4W

T4Y

R/L STH 57

CEDARBURG RD

228+00

229+00

230+00

231+00

232+00

TSL

W01-6
48"X24"

RESURFACING WORK TO BE COMPLETED UNDER FLAGGING OPERATIONS.
SEE SDD "TRAFFIC CONTROL FOR LANE CLOSURE
WITH FLAGGING OPERATIONS".
REPLACE CENTERLINE AND EDGELINE WITH SAME DAY
PAVEMENT MARKING.
TRAFFIC CONTROL CONFIGURATION SHOWN ON THIS
SHEET ARE WHEN FLAGGING OPERATIONS ARE
NOT IN EFFECT.

R11-2 (MOD)
48" X 30"
LOCAL TRAFFIC ONLY
TYPE III BARRICADE

RIGHT SHOULDER CLOSED
W21-5A

STOP
R1-1
36"X36"

WHEN FLAGGING IN THIS AREA INCLUDE A FLAGGER AND
ADVANCE SIGNING ON DONGES BAY RD

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 3 & 4A	SHEET 523	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026202_S3.DWG
LAYOUT NAME - 026331
PLOT DATE : 3/24/2021 5:44 PM
PLOT BY : NICHOLAS BOBINSKI, PE
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

N

MATCHLINE STA 238+25.00

R/L STH 57

CEDARBURG RD

T4W

T4Y

33+00 234+00 235+00 236+00 237+00 238+00

POST POST POST SIGN

RESURFACING WORK TO BE COMPLETED UNDER FLAGGING OPERATIONS.
SEE SDD "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATIONS".
REPLACE CENTERLINE AND EDGELINE WITH SAME DAY PAVEMENT MARKING.
TRAFFIC CONTROL CONFIGURATION SHOWN ON THIS SHEET ARE WHEN FLAGGING OPERATIONS ARE NOT IN EFFECT.

W01-4R

MATCHLINE STA 232+95.00

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 3 & 4A	SHEET 524	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026202_S3.DWG
LAYOUT NAME - 026332

PLOT DATE : 3/24/2021 5:45 PM PLOT BY : NICHOLAS BOBINSKI, PE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

BAYBERRY PKWY

MATCHLINE STA 243+55.00

N

WHEN FLAGGING IN THIS AREA INCLUDE A FLAGGER AND ADVANCE SIGNING ON BAYBERRY PKWY

SIGN

R/L STH 57

T4W

T4Y

T4W

T4Y

CEDARBURG RD

239+00 240+00 241+00 242+00 243+00

POST

POST

RIGHT SHOULDER CLOSED

W21-5A

RESURFACING WORK TO BE COMPLETED UNDER FLAGGING OPERATIONS.
SEE SDD "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATIONS".
REPLACE CENTERLINE AND EDGELINE WITH SAME DAY PAVEMENT MARKING.
TRAFFIC CONTROL CONFIGURATION SHOWN ON THIS SHEET ARE WHEN FLAGGING OPERATIONS ARE NOT IN EFFECT.

MATCHLINE STA 238+25.00

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 3 & 4A	SHEET 525	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026202_S3.DWG
LAYOUT NAME - 026333

PLOT DATE : 3/24/2021 5:45 PM PLOT BY : NICHOLAS BOBINSKI, PE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

MATCHLINE STA 248+85.00

MATCHLINE STA 243+55.00

T4W

T4Y

R/L STH 57

CEDARBURG RD

244+00

245+00

246+00

247+00

248+00

RESURFACING WORK TO BE COMPLETED UNDER FLAGGING OPERATIONS.
SEE SDD "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATIONS".
REPLACE CENTERLINE AND EDGELINE WITH SAME DAY PAVEMENT MARKING.
TRAFFIC CONTROL CONFIGURATION SHOWN ON THIS SHEET ARE WHEN FLAGGING OPERATIONS ARE NOT IN EFFECT.

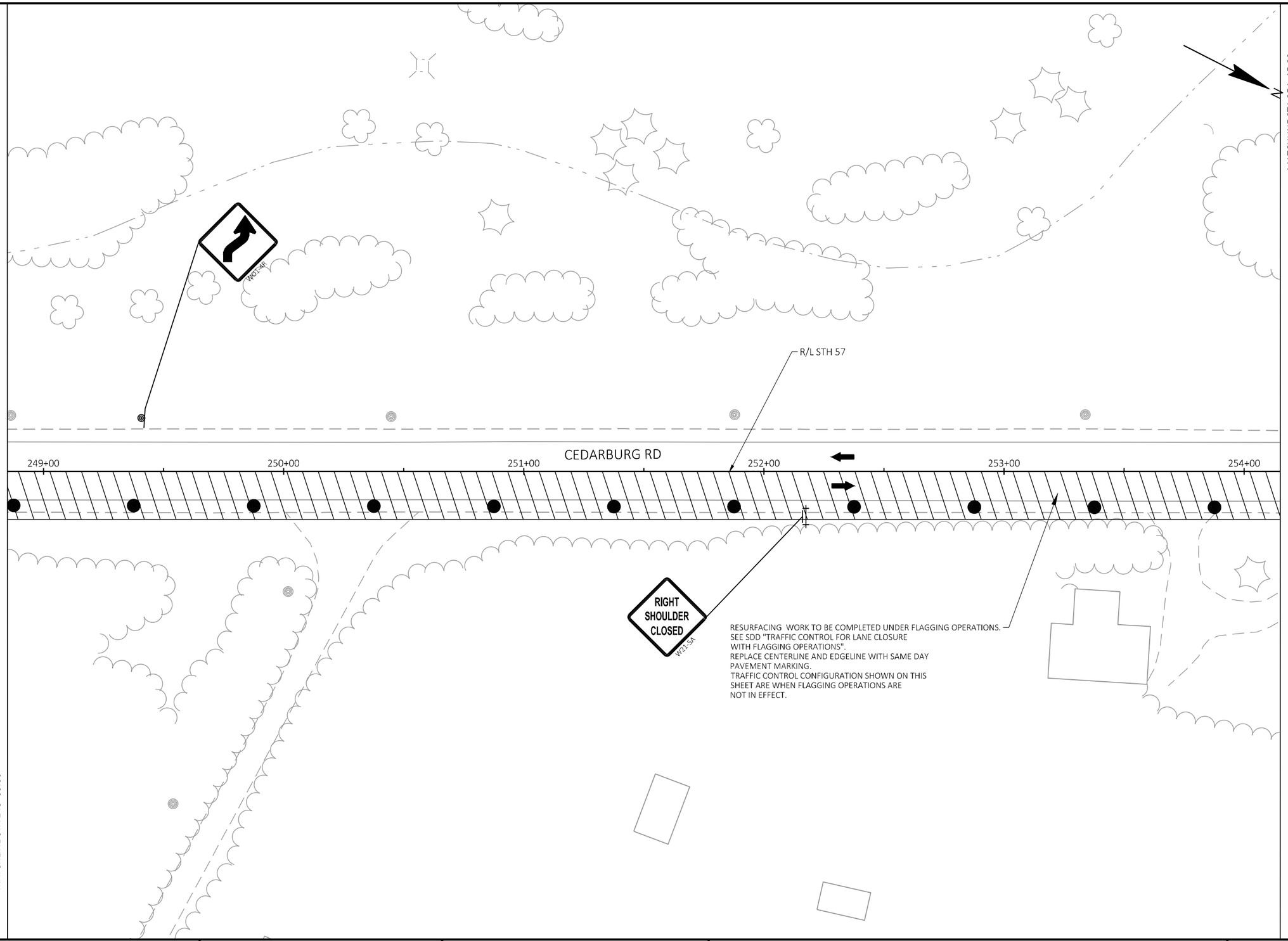
PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 3 & 4A	SHEET 526	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026202_S3.DWG
LAYOUT NAME - 026334

PLOT DATE : 3/24/2021 5:45 PM PLOT BY : NICHOLAS BOBINSKI, PE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

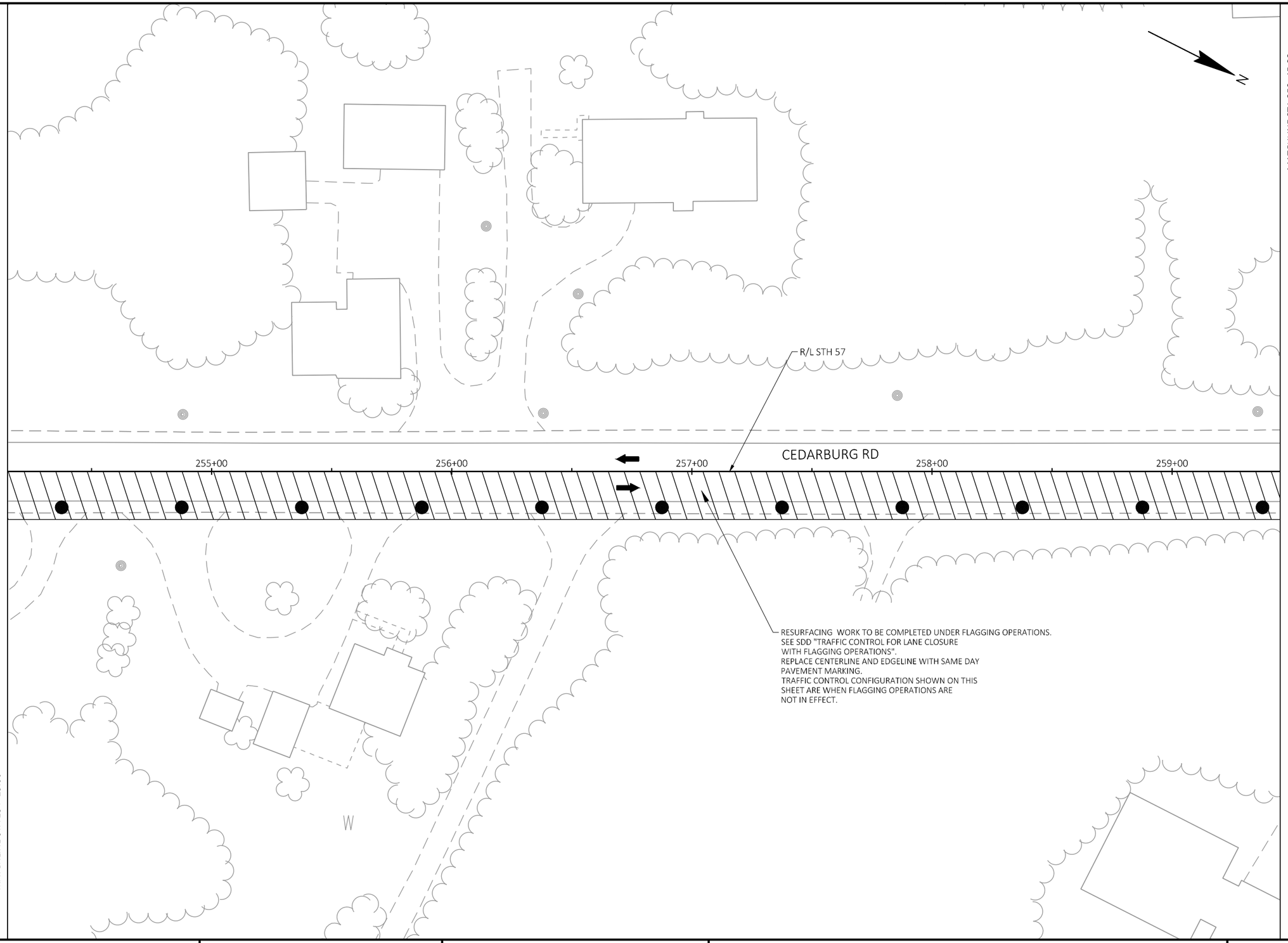
2



2

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 3 & 4A	SHEET 527	E

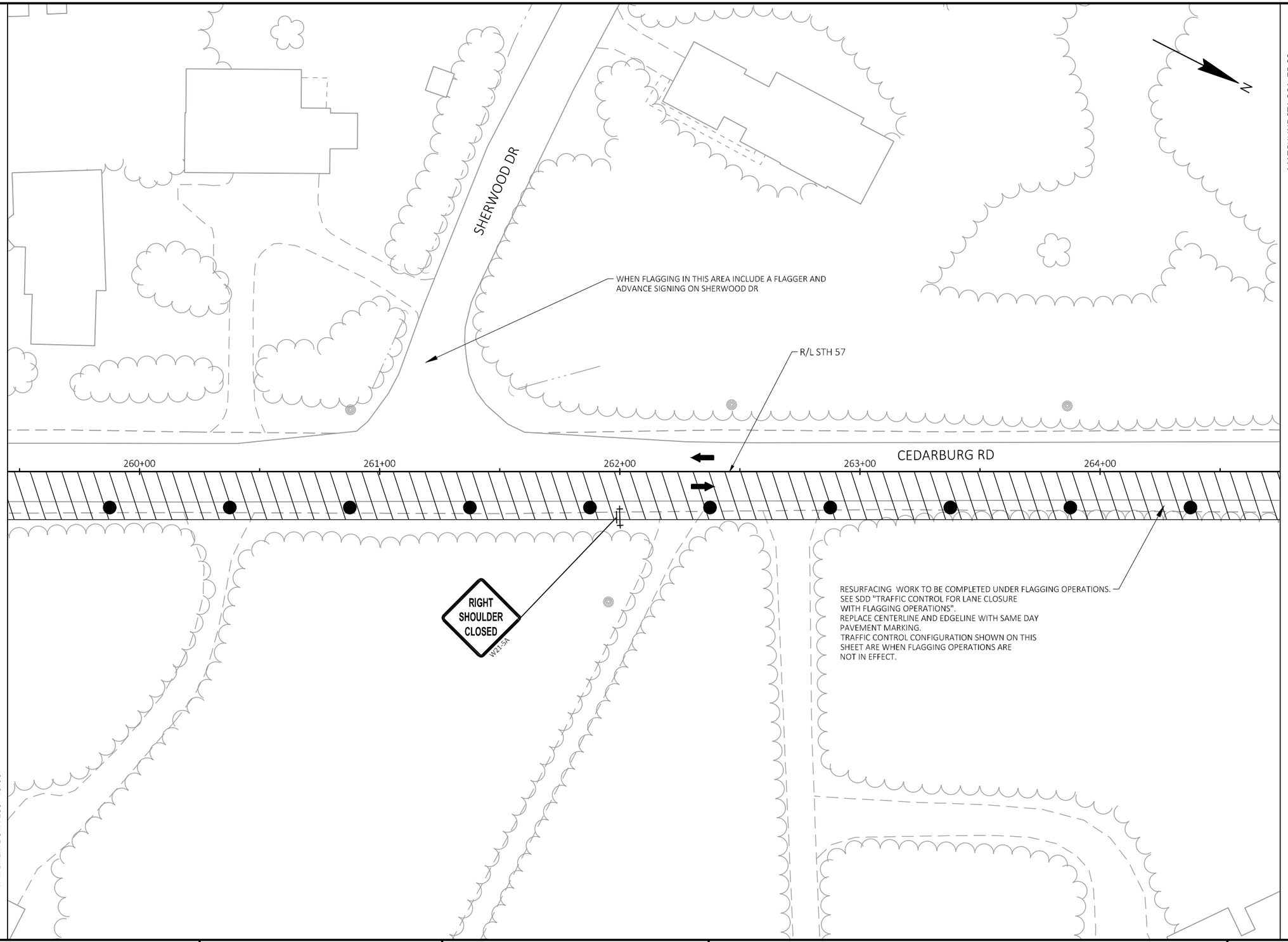
2



2

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 3 & 4A	SHEET 528	E

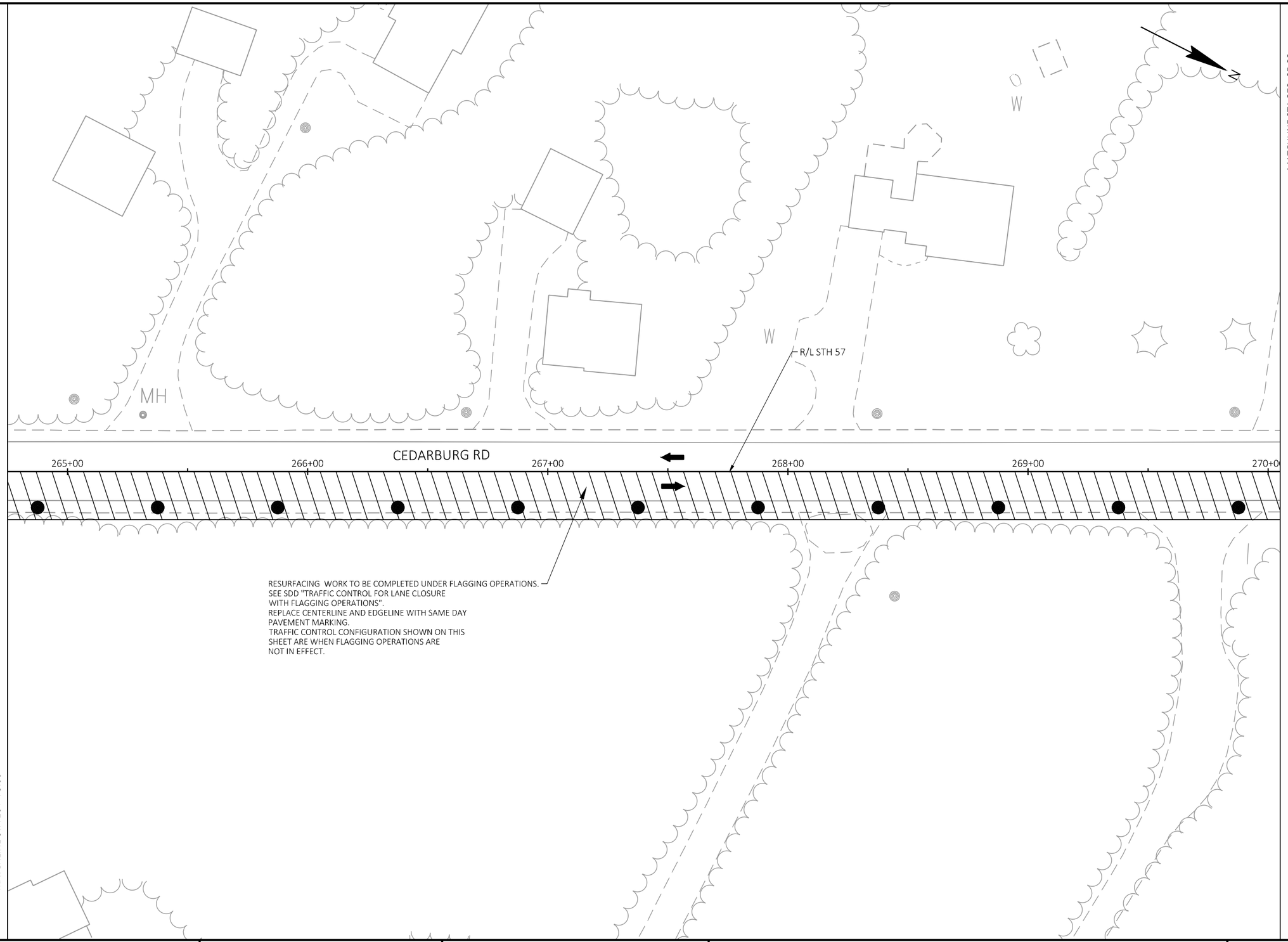
2



2

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 3 & 4A	SHEET 529	E

2



2

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 3 & 4A	SHEET 530	E

2

2

N

MATCHLINE STA 275+35.00

R/L STH 57

CEDARBURG RD

271+00 272+00 273+00 274+00 275+00

SIGN

RIGHT SHOULDER CLOSED

W21-5A

RESURFACING WORK TO BE COMPLETED UNDER FLAGGING OPERATIONS.
SEE SDD "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATIONS".
REPLACE CENTERLINE AND EDGELINE WITH SAME DAY PAVEMENT MARKING.
TRAFFIC CONTROL CONFIGURATION SHOWN ON THIS SHEET ARE WHEN FLAGGING OPERATIONS ARE NOT IN EFFECT.

MATCHLINE STA 270+05.00

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 3 & 4A	SHEET 531	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026202_S3.DWG
LAYOUT NAME - 026339
PLOT DATE : 3/24/2021 5:47 PM PLOT BY : NICHOLAS BOBINSKI, PE PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

MATCHLINE STA 280+65.00

R/L STH 57

CEDARBURG RD

276+00 277+00 278+00 279+00 280+00

RESURFACING WORK TO BE COMPLETED UNDER FLAGGING OPERATIONS.
SEE SDD "TRAFFIC CONTROL FOR LANE CLOSURE
WITH FLAGGING OPERATIONS".
REPLACE CENTERLINE AND EDGELINE WITH SAME DAY
PAVEMENT MARKING.
TRAFFIC CONTROL CONFIGURATION SHOWN ON THIS
SHEET ARE WHEN FLAGGING OPERATIONS ARE
NOT IN EFFECT.

MATCHLINE STA 275+35.00

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 3 & 4A	SHEET 532	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026202_S3.DWG
LAYOUT NAME - 026340

PLOT DATE : 3/24/2021 5:47 PM PLOT BY : NICHOLAS BOBINSKI, PE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

MATCHLINE STA 285+95.00

MATCHLINE STA 280+65.00

CEDARBURG RD

281+00 282+00 283+00 284+00 285+00

N

MH

MH

SIGN

SIGN

INL

W

W

ROAD WORK
NEXT 3 MILES
G20-1
60"X24"

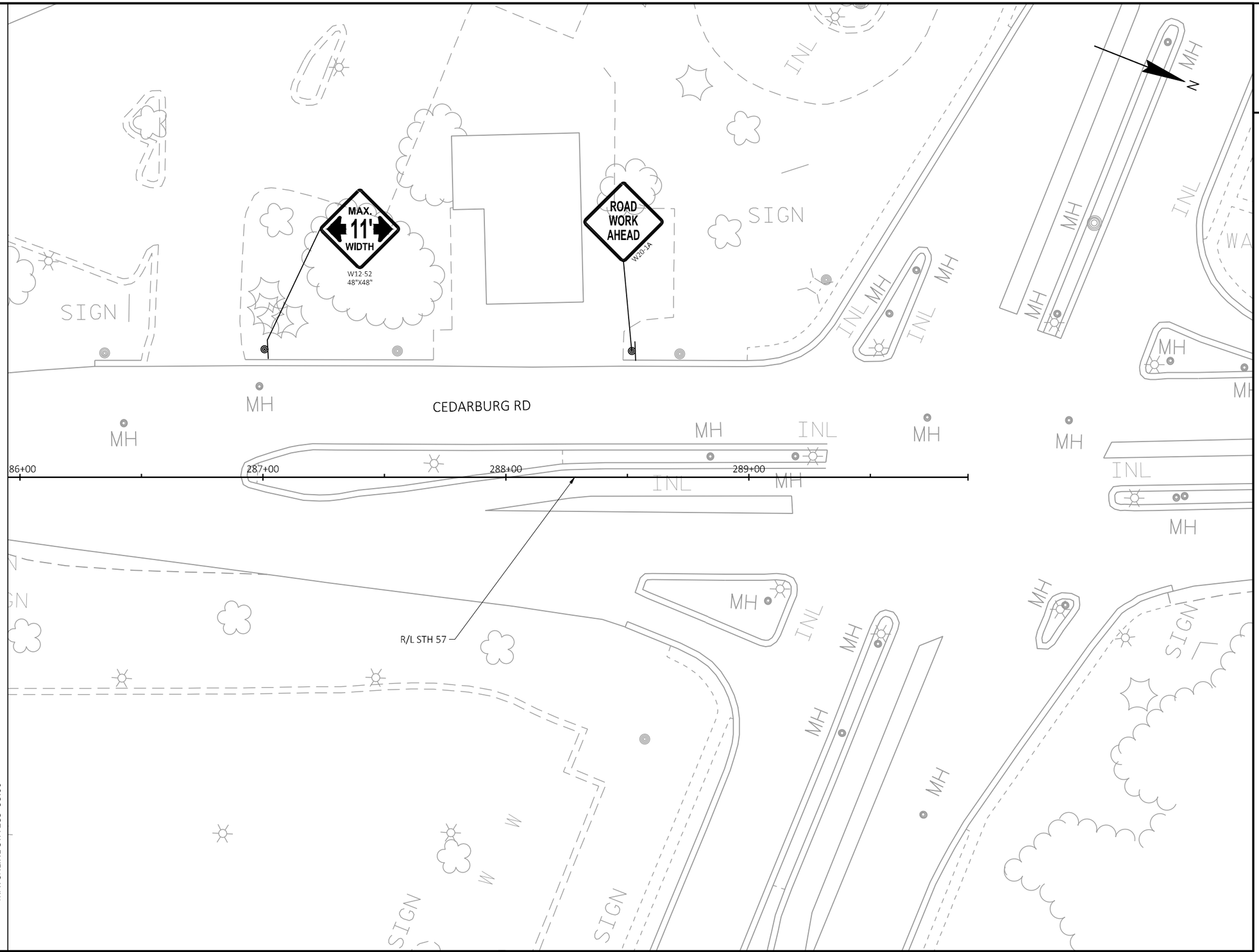
R/L STH 57

RESURFACING WORK TO BE COMPLETED UNDER FLAGGING OPERATIONS.
SEE SDD "TRAFFIC CONTROL FOR LANE CLOSURE
WITH FLAGGING OPERATIONS".
REPLACE CENTERLINE AND EDGELINE WITH SAME DAY
PAVEMENT MARKING.
TRAFFIC CONTROL CONFIGURATION SHOWN ON THIS
SHEET ARE WHEN FLAGGING OPERATIONS ARE
NOT IN EFFECT.

END
ROAD WORK
G20-2A
48"X24"

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 3 & 4A	SHEET 533	E

2



PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 3 & 4A	SHEET 534	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026202_S3.DWG
LAYOUT NAME - 026342

PLOT DATE : 3/24/2021 5:48 PM PLOT BY : NICHOLAS BOBINSKI, PE PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

S

S

STH 100 (W. BROWN DEER ROAD)

320'
MERGING
TAPER

25'

T4W

350'

350'

ROAD
WORK
AHEAD
W20-1A

RIGHT
TWO LANES
CLOSED
AHEAD
W20-5RA

W04-2R

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 3	SHEET 535	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026202_S3.DWG
LAYOUT NAME - 026246

PLOT DATE : 7/22/2021 2:06 PM PLOT BY : JOE MAAS PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

EPS

FP

458+00

459+00

460+00

461+00

462+00

463+00

STH 100 (W. BROWN DEER ROAD)

T4W

BEGIN RIGHT TURN LANE

R3-20R
24"X36"

T8W

S

S

W

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 3	SHEET 536	E

2

2

ROAD WORK AHEAD
W20-1A

END ROAD WORK
G20-2A
48"X24"

350'

N 51ST ST

S

S

W

N

464+00 465+00 466+00 467+00 468+00 469+00 470+00

R/L STH 100

320'
MERGING
TAPER

STH 100 (W. BROWN DEER ROAD)

T4W

W04-2R

SIGN

R11-2L
48" X 30"
LANE CLOSED

TYPE III BARRICADE

350'

END ROAD WORK
G20-2A
48"X24"

ROAD WORK AHEAD
W20-1A

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 3	SHEET 537	E

2

2

N

ROAD WORK AHEAD
W20-1A

350'

N ARBON DR

END ROAD WORK
G20-2A
48"X24"

470+00 471+00 472+00 473+00 474+00 475+00

R/L STH 100

STH 100 (W. BROWN DEER ROAD)

50'

T4W

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

SPEED LIMIT 40
R2-1
24"X30"

100 100 KILDEER CT
½ MILE

FMS 17

END ROAD WORK
G20-2A
48"X24"

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 3	SHEET 538	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026202_S3.DWG
LAYOUT NAME - 026249

PLOT DATE : 7/22/2021 2:07 PM PLOT BY : JOE MAAS PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

ROAD WORK AHEAD
W20-1A

350'

N ARBON DR

END ROAD WORK
G20-2A
48"X24"

BEGIN LEFT TURN LANE
R3-20L
24"X36"

N

476+00

477+00

478+00

479+00

480+00

481+00

R/L STH 100

STH 100 (W. BROWN DEER ROAD)

R R
W10-1
36"X36"

STOP
R1-1
30"X30"

350'

ROAD WORK AHEAD
W20-1A

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

W01-4L
30 MPH
W013-1
36"X36"

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 3	SHEET 539	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026202_S3.DWG
LAYOUT NAME - 026250

PLOT DATE : 7/22/2021 2:08 PM PLOT BY : JOE MAAS PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

SEE "DETOUR PLAN: BROWN DEER TRAIL CLOSURE"
FOR PEDESTRIAN DETOUR SIGNS

ROAD WORK AHEAD
W20-1A

N

END ROAD WORK
G20-2A
48"X24"

SIDEWALK CLOSED
R9-9
24"X12"

R3-2
24"X24"

STOP
R1-1
30"X30"

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

350'

T4W

T4Y

P4Y

P4W

E

10'

10'

STH 100 (W. BROWN DEER ROAD)

350' SHIFTING TAPER

482+00

483+00

484+00

485+00

486+00

487+00

R/L STH 100

CANADIAN NATIONAL RAILWAY

11'

TSL

WO1-6
48" X 24"

WO6-3

STOP
R1-1
30"X30"

R3-2
24"X24"

TYPE III BARRICADE

NEXT
1 MILES
WO57-51
48"X24"

SIDEWALK TO REMAIN OPEN FOR PEDESTRIAN DETOUR

WO1-6
48" X 24"

TYPE III BARRICADE

SEE "DETOUR PLAN: BROWN DEER TRAIL CLOSURE"
FOR PEDESTRIAN DETOUR SIGNS

SIDEWALK CLOSED
R9-9
24"X12"

N. DEERBROOK TRAIL

END ROAD WORK
G20-2A
48"X24"

ROAD WORK AHEAD
W20-1A

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 3	SHEET 540	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026202_S3.DWG
LAYOUT NAME - 026251

PLOT DATE : 7/22/2021 2:08 PM PLOT BY : JOE MAAS PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

END ROAD WORK
G20-2A
48"X24"

W10-1
36"X36"

ROAD WORK AHEAD
W20-1A

350'

R3-2
24"X24"

STOP
R1-1
30"X30"

N. DEERWOOD DRIVE

END ROAD WORK
G20-2A
48"X24"

N

WO1-6
48" X 24"

TYPE III BARRICADE

MARKING REMOVAL SPECIAL MARKING

P4Y

P4W

E

P8W

11'

25'

5'

STH 100 (W. BROWN DEER ROAD)

488+00

489+00

490+00

491+00

492+00

493+00

R/L STH 100

MARKING REMOVAL SPECIAL MARKING

309' SHIFTING TAPER

MARKING REMOVAL SPECIAL MARKING

TSL

STOP
R1-1
30"X30"

R3-2
24"X24"

350'

N. DEERWOOD DRIVE

M2-1
21"X15"

M3-6
24"X24"

JCT
57

MAX.
12'
WIDTH

W12-52

W06-3

STOP
R1-1
30"X30"

R3-2
24"X24"

MAX.
13'
WIDTH

TRUCKS USE RIGHT LANE
R4-5

W3-3
36"X36"

W12-52
48"X48"

W20-5R

LEFT LANE

W12-52P
42"X36"

WO1-1BR

FMS
11,12,&15

LANE SPLIT
1000 FT

R11-2
48" X 30"

ROAD CLOSED

TYPE III BARRICADE

ROAD WORK AHEAD
W20-1A

SIDEWALK CLOSED
R9-9
24"X12"

END ROAD WORK
G20-2A
48"X24"

ROAD WORK AHEAD
W20-1A

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 3	SHEET 541	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026202_S3.DWG
LAYOUT NAME - 026252

PLOT DATE : 7/22/2021 2:09 PM PLOT BY : JOE MAAS PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

STH 57 (N. GREEN BAY ROAD)

STH 100 (W. BROWN DEER ROAD)

493+00 494+00 495+00 496+00 497+00 498+00 499+

122+00 121+00 120+00 119+00

135' SHIFTING TAPER

150' SHIFTING TAPER

MARKING REMOVAL SPECIAL MARKING

MARKING REMOVAL SPECIAL MARKING

W06-3

NORTH 57 M3-1 24"X12" M1-6 24"X24" M5-1L 21"X21"

BEGIN LEFT TURN LANE R3-20L 24"X36"

BEGIN LEFT TURN LANE R3-20L 24"X36"

EAST 100 WEST 100 M3-2 24"X12" M1-6 24"X24" M6-1 21"X21" M3-4 24"X12" M1-6 24"X24" M6-1 21"X21"

STOP R1-1F 30"X30"

STOP R1-1F 30"X30"

NORTH 57 M3-1 24"X12" M1-6 24"X24" M6-1 21"X21"

ONLY ONLY ONLY R3-8X 54"X30"

BEGIN RIGHT TURN LANE R3-20R 24"X36"

ONLY ONLY ONLY R3-8RR 54"X30"

JCT 57 M2-1 21"X15" M1-6 24"X24"

MAX. 12' WIDTH W20-52

MAX. 13' WIDTH W20-52

TRUCKS USE RIGHT LANE R4-5

WO1-4BL

NORTH 57 M3-1 24"X12" M1-6 24"X24" M6-1 21"X21"

LEFT LANE W20-50L W12-52 48"X48" W12-52P 42"X36"

R11-2 48" X 30" ROAD CLOSED TYPE III BARRICADE

WO1-6 48" X 24" TYPE III BARRICADE

FMS 11,12,&13

LANE SPLIT 330 FT

2' LINE 6' GAP

R/L STH 100

P4W P8W P4Y

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 3	SHEET 542	E

2

2

N

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

150'
SHIFTING
TAPER

WO1-6
48" X 24"
TYPE III BARRICADE

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

NORTH
57
M3-1
24"X12"
M1-6
24"X24"
M5-1R
21"X21"

WO12-1D
24"X24"

W3-3
36"X36"

WO6-3

P4W

P4Y

T24W

50'

STH 100 (W. BROWN DEER ROAD)

499+00

500+00

501+00

502+00

503+00

504+00

25'

R/L STH 100

P4W

KILDEER
CT

FMS 9

T8W

WO1-6
48" X 24"

T4W

WO6-3

287'
SHIFTING
TAPER

WO11-2

AHEAD

WO16-9P
24"X12"

FMS
11,12,&13

TYPE III BARRICADE

LANE SPLIT
550 FT

WO1-6
48" X 24"
TYPE III BARRICADE

500'
SHIFTING
TAPER

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 3	SHEET 543	E

2

2

N

ROAD WORK AHEAD
W20-1A

END ROAD WORK
G20-2A
48"X24"

JCT
57
M2-1
21"X15"
M1-6
24"X24"

MAX. 12' WIDTH
W12-52
48"X48"

W1-6
W1-4BL

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

FMS 8
WATCH FOR TRAFFIC

R3-2
24"X24"

STOP
R1-1
30"X30"

SIDEWALK CLOSED
R9-9
24"X12"

350'

N. KILDEER COURT

WO11-2
WO16-7L
24"X12"

SPEED LIMIT 40
R2-1
24"X30"

T4Y

12'

10'

5'

STH 100 (W. BROWN DEER ROAD)

505+00
506+00
507+00
508+00
509+00
510+00

R/L STH 100

T4W

WO1-6
48" X 24"

ONE WAY
R6-1R
36"X12"

16'

500'
SHIFTING
TAPER

NOTE:
ACCESS TO S. KILDEER CT SHALL
BE MAINTAINED ALWAYS

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 3/STAGE 3A	SHEET 544	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026202_S3.DWG
LAYOUT NAME - 026255

PLOT DATE : 4/22/2021 9:50 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

MILWAUKEE RIVER

WO11-2

AHEAD

WO16-9P
24"X12"

WO1-4R

T4Y

12'

10'

11'

50'

510+00 511+00 512+00 513+00 514+00 515+00 516+00

R/L STH 100

STH 100 (W. BROWN DEER ROAD)

12'

T4W

TRUCKS ENTERING & LEAVING

W8-6A
48"X48"

8:1 TAPER

WO5-52L
12"X36"

MILWAUKEE R.

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 3/STAGE 3A	SHEET 545	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026202_S3.DWG
LAYOUT NAME - 026256

PLOT DATE : 4/22/2021 9:50 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

ROAD CLOSED AHEAD
W20-3A

PLACE SIGN AT GREENBROOK RD

ROAD CLOSED 500 FT
W20-3D

500'

N. UPPER RIVER ROAD

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

W06-3
NEXT 1 MILES
WO57-51
48"X24"

WO1-6
48" X 24"
TYPE III BARRICADE

N

T4Y

25'

516+00 517+00 518+00 519+00 520+00 521+00 522+

R/L STH 100

T4W

STH 100 (W. BROWN DEER ROAD)

12'

12'

T4W

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

TRUCKS ENTERING & LEAVING
W8-6A
48"X48"

COVER

R3-2
24"X24"

SPEED LIMIT 40
R2-1
24"X30"

745'
SHIFTING
TAPER

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 3/STAGE 3A	SHEET 546	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026202_S3.DWG
LAYOUT NAME - 026257
PLOT DATE : 4/22/2021 9:50 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

N

540'
MERGING
TAPER

R11-2L
48" X 30"
LANE
CLOSED

TYPE III BARRICADE

WO1-6
48" X 24"

TYPE III BARRICADE

50'

522+00

523+00

524+00

525+00

526+00

527+00

R/L STH 100

STH 100 (W. BROWN DEER ROAD)

T4W

T4W

T24W

T8W

T4W

WO4-3L
48"X48"

745'
SHIFTING
TAPER

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 3	SHEET 547	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026202_S3.DWG
LAYOUT NAME - 026258

PLOT DATE : 4/22/2021 9:50 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

540'
MERGING
TAPER

SPEED
LIMIT
40
R2-1
24"X30"

COVER

W04-2L

500'

MH

MH

T4Y

12'

12'

25'

528+00

529+00

530+00

531+00

532+00

533+00

R/L STH 100

12'

12'

11'

STH 100 (W. BROWN DEER ROAD)

END
ROAD WORK
G20-2A
48"X24"

INL

INL

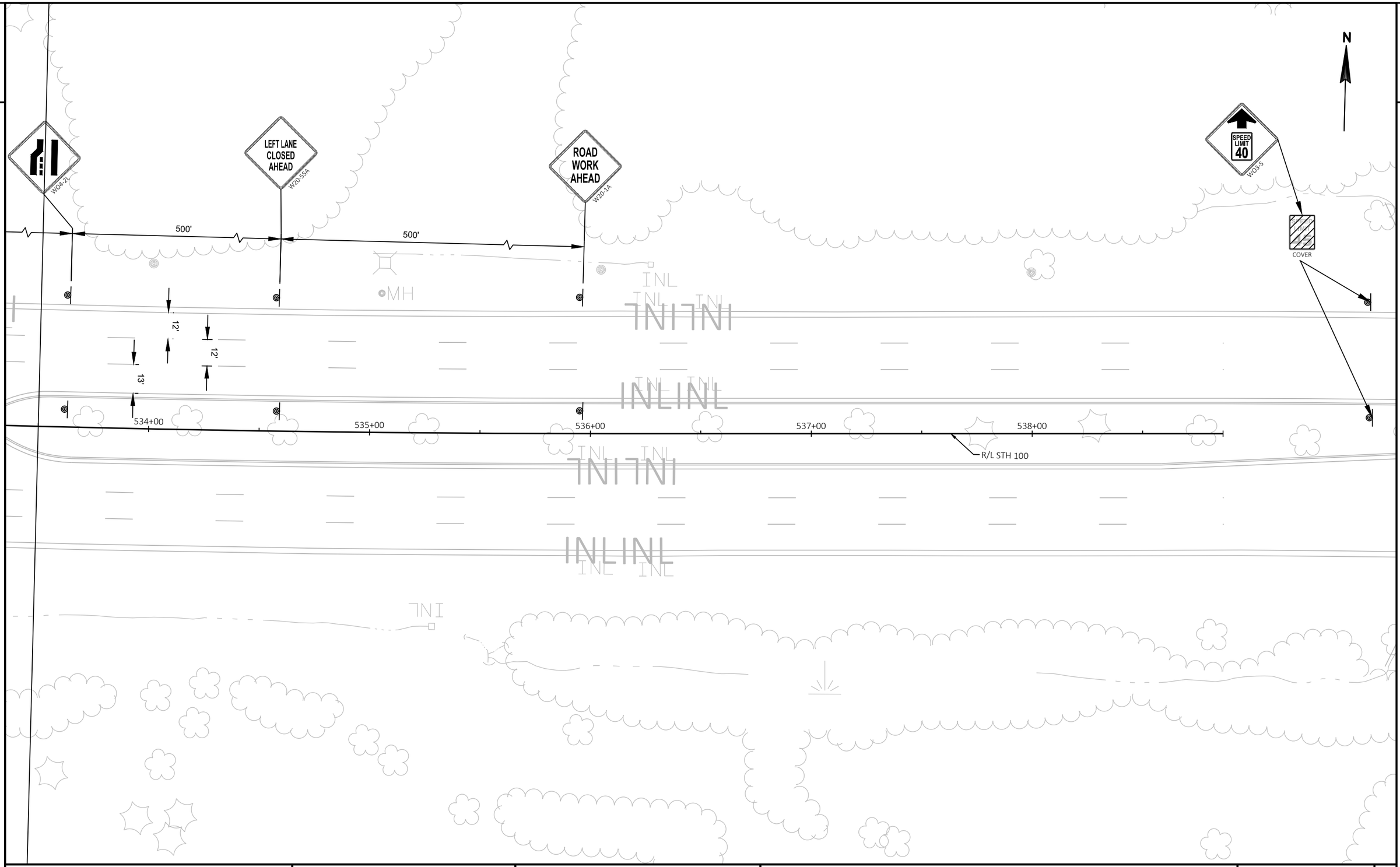
INL

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 3	SHEET 548	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026202_S3.DWG
LAYOUT NAME - 026259

PLOT DATE : 4/22/2021 9:51 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

2



PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 3	SHEET 549	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026202_S3.DWG
LAYOUT NAME - 026260

PLOT DATE : 4/22/2021 9:51 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

ROAD WORK AHEAD
W20-1A

END ROAD WORK
G20-2A
48"X24"

JCT
57
M2-1
21"X15"
M1-6
24"X24"

MAX. 12' WIDTH
W12-52
48"X48"

WO6-3

WO1-4BL

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

FMS 8
WATCH FOR TRAFFIC

R3-2
24"X24"

R1-1
30"X30"
STOP

SIDEWALK CLOSED
R9-9
24"X12"

350'

N. KILDEER COURT

WO11-2
WO16-7L
24"X12"

SPEED LIMIT 40
R2-1
24"X30"

12'
10'
5'

STH 100 (W. BROWN DEER ROAD)

505+00
506+00
507+00
508+00
509+00
510+00

T4W

R/L STH 100

11'
12'

WO1-6
48" X 24"

ONE WAY
R6-1R
36"X12"

SEE STAGE 3 FOR TRAFFIC CONTROL
WEST OF STA 504+25

500'
SHIFTING
TAPER

NOTE:
ACCESS TO S. KILDEER CT SHALL
BE MAINTAINED ALWAYS

S. KILDEER CT

N

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 3B	SHEET 550	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026203_S3B.DWG
LAYOUT NAME - 026255

PLOT DATE : 4/20/2021 4:17 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

MILWAUKEE RIVER

WO11-2

AHEAD

WO16-9P
24"X12"

WO1-4R

12'

10'

11'

50'

510+00 511+00 512+00 513+00 514+00 515+00 516+00

R/L STH 100

STH 100 (W. BROWN DEER ROAD)

12'

T4W

8:1 TAPER

TRUCKS ENTERING & LEAVING

W8-6A
48"X48"

WO5-52R
12"X36"

MILWAUKEE R.

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 3B	SHEET 551	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026203_S3B.DWG
LAYOUT NAME - 026256

PLOT DATE : 4/20/2021 4:17 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

ROAD CLOSED AHEAD
W20-3A

PLACE SIGN AT GREENBROOK RD

ROAD CLOSED 500 FT
W20-3D

500'

N. UPPER RIVER ROAD

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

W06-3
NEXT 1 MILES
WO57-51
48"X24"

WO1-6
48" X 24"
TYPE III BARRICADE

N

25'

516+00 517+00 518+00 519+00 520+00 521+00 522+

R/L STH 100

12'

STH 100 (W. BROWN DEER ROAD)

T4W

T4Y

WO1-6
48" X 24"
TYPE III BARRICADE

263'
SHIFTING
TAPER

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

SEE STAGE 3 FOR TRAFFIC CONTROL
EAST OF STA 522+00

TRUCKS ENTERING & LEAVING
W8-6A
48"X48"

COVER

R3-2
24"X24"

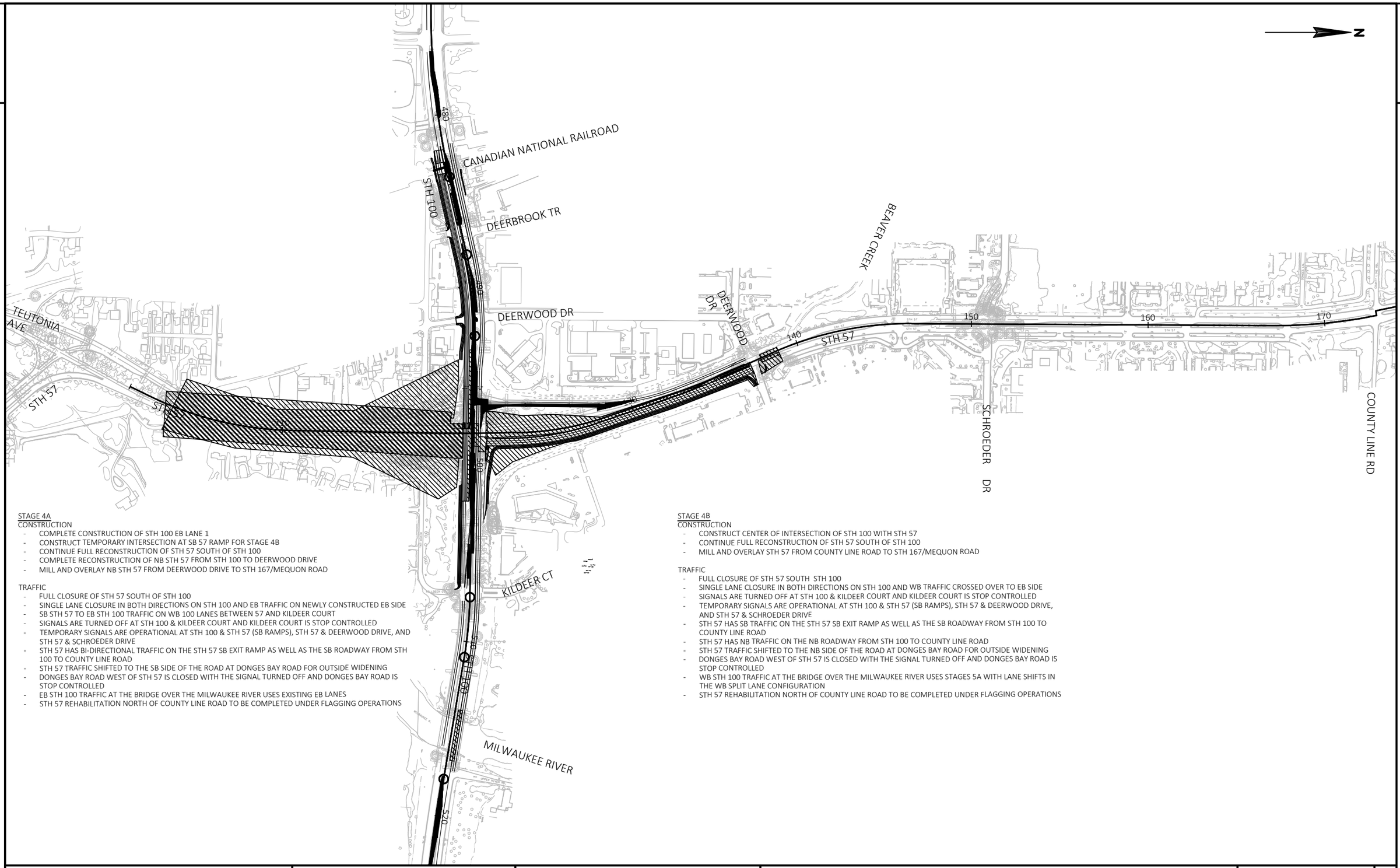
SPEED LIMIT 40
R2-1
24"X30"

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 3B	SHEET 552	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026203_S3B.DWG
LAYOUT NAME - 026257

PLOT DATE : 4/20/2021 4:18 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

2


N
CANADIAN NATIONAL RAILROAD
STH 100
DEERBROOK TR
DEERWOOD DR
DEERWOOD DR
BEAVER CREEK
TEUTONIA AVE
STH 57
STH 57
SCHROEDER DR
COUNTY LINE RD
KILDEER CT
MILWAUKEE RIVER
480
490
500
510
520
530
540
550
560
570
580
590
600
610
620
630
640
650
660
670
680
690
700
710
720
730
740
750
760
770
780
790
800
810
820
830
840
850
860
870

2

7+00
8+00
9+00
10+00
11+00
497+00
498+00
499+00
500+00
121+00
122+00
123+00
124+00
125+00
126+00
N
R/L RAMP C
50'
10'
11'
E
STH 100 (W. BROWN DEER ROAD)
R/L STH 100
STH 57 (N. GREEN BAY ROAD)
R/L STH 57
R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE
M3-2
24"X12"
EAST
WEST
M3-4
24"X12"
M1-6
24"X24"
100
100
M1-6
24"X24"
M6-1
21"X21"
M6-1
21"X21"
W06-3
COVER
ONLY
ONLY
ONLY
R3-8R
54"X30"
M3-2
24"X12"
EAST
WEST
M3-4
24"X12"
M1-6
24"X24"
100
100
M1-6
24"X24"
M5-1L
21"X21"
M5-1R
21"X21"
50'

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 4A	SHEET 554	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026301_S4A.DWG
LAYOUT NAME - 026210

PLOT DATE : 4/23/2021 11:12 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

W3-3
36"X36"

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

M2-1
21"X15"
JCT
M1-6
24"X24"
100

1+00
12+00
13+00
14+00
15+00
16+00
17+00
R/L RAMP C
STH 57 (N. GREEN BAY ROAD)
E
127+00
128+00
129+00
130+00
131+00
132+00

W3-3
36"X36"

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 4A	SHEET 555	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026301_S4A.DWG
LAYOUT NAME - 026211
PLOT DATE : 4/23/2021 11:12 AM
PLOT BY : TONY BUBLITZ
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

2

2

BEGIN LEFT TURN LANE
R3-20L
24"X36"

R/L RAMP C

17+00

12+00

133+00

134+00

135+00

136+00

137+00

138+00

STH 57 (N. GREEN BAY ROAD)

R/L STH 57

10'

11'

11'

ROAD WORK AHEAD
W20-1A

WO6-3

STOP
R1-1F
30"X30"

350'

N. DEERWOOD DRIVE

E

11'

10'

11'

END ROAD WORK
G20-2A
48"X24"

STOP
R1-1F
30"X30"

NO TURN ON RED
R10-11B
24"X24"

WO6-4
12"X18"

STOP
R1-1F
30"X30"

R11-2
48" X 30"

ROAD CLOSED

TYPE III BARRICADE

11'

11'

11'

TEMPORARY PEDESTRIAN CURB RAMP

TEMPORARY PEDESTRIAN SURFACE PLATE

350'

STOP
R1-1F
30"X30"

CLOSE RIGHT LANE WHILE WORK IS BEING COMPLETED ALONG DEERWOOD DRIVE

N. DEERWOOD DRIVE

END ROAD WORK
G20-2A
48"X24"

ROAD WORK AHEAD
W20-1A

NOTE: PAVEMENT REHABILITATION AND LOOP DETECTOR REPLACEMENT WORK WITHIN THE INTERSECTION TO BE COMPLETED UNDER NIGHT-TIME FULL CLOSURE OF THE EAST INTERSECTION APPROACH.

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 4A	SHEET 556	E

2

2

N

STH 100 (W. BROWN DEER ROAD)

320'
MERGING
TAPER

25'

T4W

350'

350'

ROAD
WORK
AHEAD
W20-1A

RIGHT
TWO LANES
CLOSED
AHEAD
W20-5RA

W04-2R

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 4A	SHEET 557	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026302_S4A.DWG
LAYOUT NAME - 026246

PLOT DATE : 7/22/2021 1:42 PM PLOT BY : JOE MAAS PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

EPS

FP

458+00

459+00

460+00

461+00

462+00

463+00

T4W

BEGIN RIGHT TURN LANE

R3-20R
24"X36"

STH 100 (W. BROWN DEER ROAD)

T8W

W

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 4A	SHEET 558	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026302_S4A.DWG
LAYOUT NAME - 026247

PLOT DATE : 7/22/2021 1:43 PM

PLOT BY : JOE MAAS

PLOT NAME :

PLOT SCALE : 1 IN:40 FT

2

2

N

ROAD WORK AHEAD
W20-1A

END ROAD WORK
G20-2A
48"X24"

350'

N 51ST ST

W

464+00 465+00 466+00 467+00 468+00 469+00 470+00

R/L STH 100

R/L STH 100

320'
MERGING
TAPER

STH 100 (W. BROWN DEER ROAD)

T4W

W04-2R

R11-2L
48" X 30"
LANE CLOSED

TYPE III BARRICADE

350'

END ROAD WORK
G20-2A
48"X24"

ROAD WORK AHEAD
W20-1A

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 4A	SHEET 559	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026302_S4A.DWG
LAYOUT NAME - 026248

PLOT DATE : 7/22/2021 1:43 PM PLOT BY : JOE MAAS PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

ROAD WORK AHEAD
W20-1A

N

350'

N ARBON DR

END ROAD WORK
G20-2A
48"X24"

470+00 471+00 472+00 473+00 R/L STH 100 474+00 475+00

STH 100 (W. BROWN DEER ROAD)

50'

T4W

WD1-4R

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

SPEED LIMIT 40
R2-1
24"X30"

END ROAD WORK
G20-2A
48"X24"

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 4A	SHEET 560	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026302_S4A.DWG
LAYOUT NAME - 026249

PLOT DATE : 7/22/2021 1:44 PM PLOT BY : JOE MAAS PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

ROAD WORK AHEAD
W20-1A

350'

N ARBON DR

END ROAD WORK
G20-2A
48"X24"

BEGIN LEFT TURN LANE
R3-20L
24"X36"

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

R3-2
24"X24"

N

STH 100 (W. BROWN DEER ROAD)

476+00
477+00
478+00
479+00
480+00
481+00

R/L STH 100

300'
SHIFTING
TAPER

T4Y

T4W

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

WO1-6
48" X 24"
TYPE III BARRICADE

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

WO1-6
48" X 24"
TYPE III BARRICADE

R3-2
24"X24"

350'

ROAD WORK AHEAD
W20-1A

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 4A	SHEET 561	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026302_S4A.DWG
LAYOUT NAME - 026250

PLOT DATE : 7/22/2021 1:44 PM PLOT BY : JOE MAAS PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

SEE "DETOUR PLAN: BROWN DEER TRAIL CLOSURE" FOR PEDESTRIAN DETOUR SIGNS

ROAD WORK AHEAD
W20-1A

SIDEWALK CLOSED
R9-9
24"X12"

WO1-6
48" X 24"

R11-2
48" X 30"
ROAD CLOSED

TYPE III BARRICADE

TYPE III BARRICADE

350'

STOP
R1-1
30"X30"

R3-2
24"X24"

N. DEERBROOK TRAIL

N

END ROAD WORK
G20-2A
48"X24"

11'

11'

482+00

483+00

484+00

R/L STH 100

485+00

486+00

487+00

CANADIAN NATIONAL RAILWAY

STH 100 (W. BROWN DEER ROAD)

T4Y

SEE "DETOUR PLAN: BROWN DEER TRAIL CLOSURE" FOR PEDESTRIAN DETOUR SIGNS

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

SIDEWALK CLOSED
R9-9
24"X12"

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

WO1-6
48" X 24"
TYPE III BARRICADE

END ROAD WORK
G20-2A
48"X24"

N. DEERBROOK TRAIL

STOP
R1-1
30"X30"

R3-2
24"X24"

SIDEWALK CLOSED
R9-9
24"X12"

ROAD WORK AHEAD
W20-1A

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 4A	SHEET 562	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026302_S4A.DWG
LAYOUT NAME - 026251

PLOT DATE : 7/22/2021 1:45 PM PLOT BY : JOE MAAS PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

END ROAD WORK
G20-2A
48"X24"

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

W10-1
36"X36"

ROAD WORK AHEAD
W20-1A

R3-2
24"X24"

STOP
R1-1
30"X30"

350'

SIDEWALK CLOSED
R9-9
24"X12"

N. DEERWOOD DRIVE

END ROAD WORK
G20-2A
48"X24"

WO1-6
48" X 24"
TYPE III BARRICADE

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

N

11'
11'

488+00
489+00
490+00
491+00
492+00
493+00

R/L STH 100

STH 100 (W. BROWN DEER ROAD)

T4Y
T4W

SIDEWALK CLOSED
R9-9
24"X12"

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

WO1-6
48" X 24"
TYPE III BARRICADE

STOP
R1-1
30"X30"

R3-2
24"X24"

ROAD WORK AHEAD
W20-1A

END ROAD WORK
G20-2A
48"X24"

N. DEERWOOD DRIVE
350'

STOP
R1-1
30"X30"

R3-2
24"X24"

ROAD WORK AHEAD
W20-1A

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 4A	SHEET 563	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026302_S4A.DWG
LAYOUT NAME - 026252

PLOT DATE : 4/23/2021 11:20 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

M3-2 24"X12"
M1-6 24"X24"
M6-1 21"X21"
EAST
WEST
100
100
M3-4 24"X12"
M1-6 24"X24"
M6-1 21"X21"

WO1-6 48" X 24"
TYPE III BARRICADE

WO1-6 48" X 24"
TYPE III BARRICADE

R11-2L 48" X 30"
LANE CLOSED
TYPE III BARRICADE

STOP
R1-1F 30"X30"

STOP
R1-1F 30"X30"

NORTH
57
M3-1 24"X12"
M1-6 24"X24"
M6-1 21"X21"

WO6-4 12"X18"

ONLY ONLY ONLY
R3-8X 54"X30"

BEGIN RIGHT TURN LANE
R3-20R 24"X36"

STH 57 (N. GREEN BAY ROAD)

N

P4Y

T4Y

T4W

STH 100 (W. BROWN DEER ROAD)

R/L STH 100

11'
11'
11'
11'

493+00
494+00
495+00
496+00
497+00
498+00
499+
122+00
121+00
120+00
119+00

R11-2L 48" X 30"
LANE CLOSED
TYPE III BARRICADE

R11-2L 48" X 30"
LANE CLOSED
TYPE III BARRICADE

R11-2 48" X 30"
ROAD CLOSED
TYPE III BARRICADE

WO1-4R

SIGN

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 4A	SHEET 564 E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026302_S4A.DWG
LAYOUT NAME - 026253
PLOT DATE : 4/23/2021 11:20 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

150'
SHIFTING
TAPER

W01-6
48" X 24"
TYPE III BARRICADE

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

NORTH
57
M3-1
24"X12"
M1-6
24"X24"
M5-1R
21"X21"

W3-3
36"X36"

W06-3

T4Y

T4W

9+00

0+00

1+00

2+00

503+00

504+00

R/L STH 100

STH 100 (W. BROWN DEER ROAD)

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

W01-4BL

T4Y

T4W

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

W01-6
48" X 24"
TYPE III BARRICADE

484'
SHIFTING
TAPER

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 4A	SHEET 565	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026302_S4A.DWG
LAYOUT NAME - 026254
PLOT DATE : 4/23/2021 11:20 AM
PLOT BY : TONY BUBLITZ
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

ROAD WORK AHEAD
W20-1A

END ROAD WORK
G20-2A
48"X24"

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

WO1-3

WO1-4BL

WO1-6
48" X 24"
TYPE III BARRICADE

STOP
R1-1
30"X30"

R3-2
24"X24"

SIDEWALK CLOSED
R9-9
24"X12"

350'

N. KILDEER COURT

FMS 8
WATCH FOR TRAFFIC

WO11-2
WO16-7L
24"X12"

R3-2
24"X24"

SPEED LIMIT 40
R2-1
24"X30"

N

12'

10'

505+00 506+00 507+00 508+00 509+00 510+00

R/L STH 100

STH 100 (W. BROWN DEER ROAD)

T8W T4Y T4W

WO1-6
48" X 24"
TYPE III BARRICADE

WO4-3L
48"X48"

150'
SHIFTING
TAPER

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

SIDEWALK CLOSED
R9-9
24"X12"

484'
SHIFTING
TAPER

END ROAD WORK
G20-2A
48"X24"

350'

N. KILDEER COURT

STOP
R1-1
30"X30"

R3-2
24"X24"

WATCH FOR TRAFFIC
FMS 8

WO11-2
WO16-7L
24"X12"

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

WO1-6
48" X 24"
TYPE III BARRICADE

ROAD WORK AHEAD
W20-1A

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 4A	SHEET 566	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026302_S4A.DWG
LAYOUT NAME - 026255
PLOT DATE : 4/23/2021 11:20 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

N

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

WO11-2
AHEAD
WO16-9P
24"X12"

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

MILWAUKEE RIVER

12'
10'

510+00
511+00
512+00
513+00
514+00
515+00
516+00

R/L STH 100

STH 100 (W. BROWN DEER ROAD)

MILWAUKEE R.

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 4A	SHEET 567	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026302_S4A.DWG
LAYOUT NAME - 026256

PLOT DATE : 4/23/2021 11:21 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

ROAD CLOSED AHEAD
W20-3A

PLACE SIGN AT GREENBROOK RD

ROAD CLOSED 500 FT
W20-3D

500'

N. UPPER RIVER ROAD

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

R3-2
24"X24"

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

N

SIGN

516+00 517+00 518+00 519+00 520+00 521+00 522+

R/L STH 100

STH 100 (W. BROWN DEER ROAD)

12' 12' 12'

R3-2
24"X24"

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

MH

INL

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 4A	SHEET 568	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026302_S4A.DWG
LAYOUT NAME - 026257

PLOT DATE : 4/23/2021 11:21 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

522+00 523+00 524+00 525+00 526+00 527+00

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 4A	SHEET 569	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026302_S4A.DWG
LAYOUT NAME - 026258
PLOT DATE : 4/23/2021 11:21 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

SPEED LIMIT 40
R2-1
24"X30"

COVER

MH

MH

INL

12'

12'

528+00

529+00

530+00

531+00

532+00

533+00

12'

12'

12'

STH 100 (W. BROWN DEER ROAD)

INL

INL

INL

END ROAD WORK
G20-2A
48"X24"

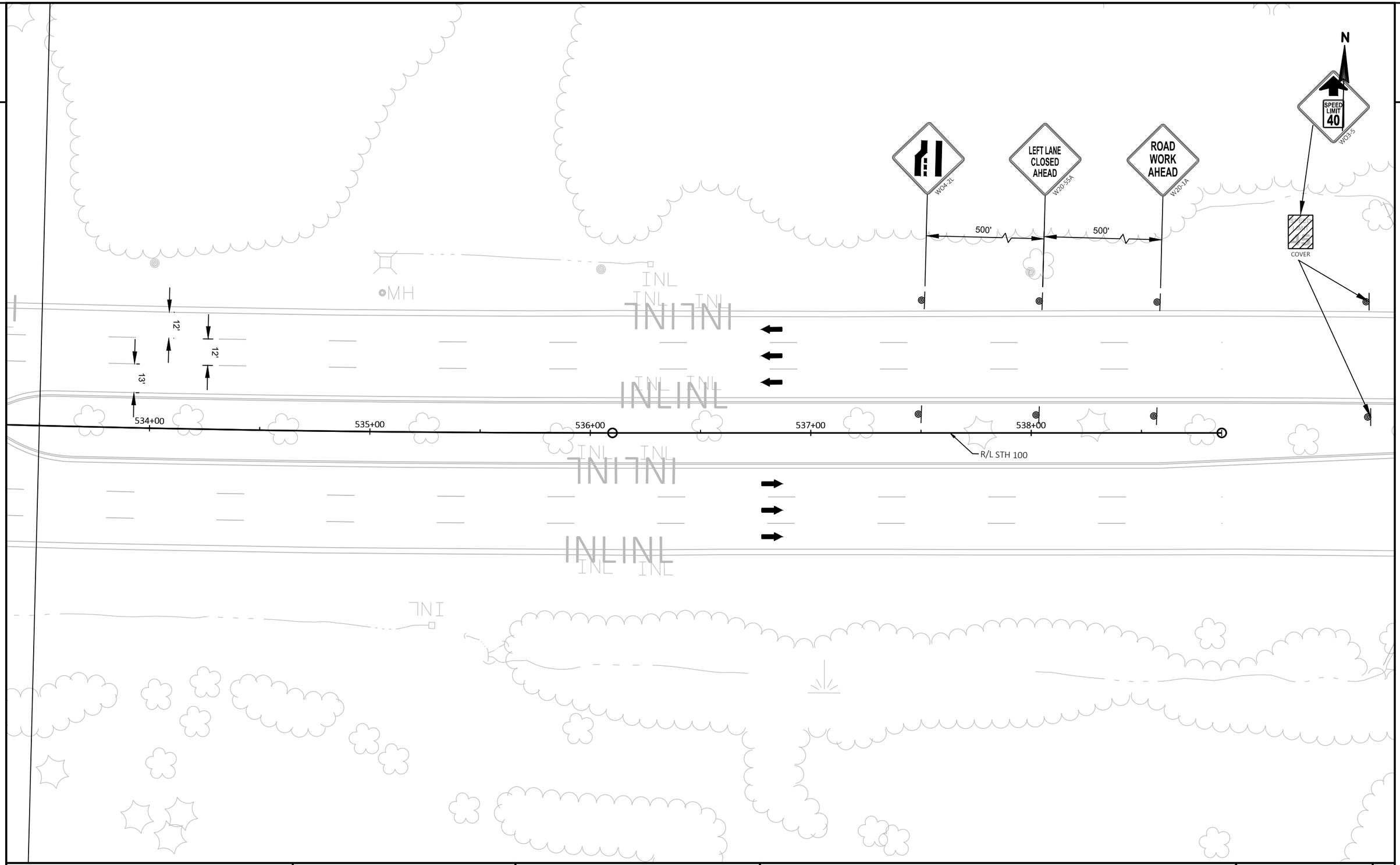
PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 4A	SHEET 570	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026302_S4A.DWG
LAYOUT NAME - 026259

PLOT DATE : 4/23/2021 11:21 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 4A	SHEET 571	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026302_S4A.DWG
LAYOUT NAME - 026260

PLOT DATE : 4/23/2021 11:22 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

7+00
8+00
9+00
10+00
11+00
N
R/L RAMP C
11'
50'
497+00
498+00
499+00
500+00
STH 100 (W. BROWN DEER ROAD)
R/L STH 100
121+00
122+00
123+00
124+00
125+00
126+00
R/L STH 57
STH 57 (N. GREEN BAY ROAD)

M3-2 24"X12" | M3-4 24"X12"
M1-6 24"X24" | M1-6 24"X24"
EAST | WEST
100 | 100
M6-1 21"X21" | M6-1 21"X21"

BEGIN LEFT TURN LANE
R3-20L 24"X36"

COVER
ONLY | ONLY | ONLY
R3-8R 54"X30"

M3-2 24"X12" | M3-4 24"X12"
M1-6 24"X24" | M1-6 24"X24"
EAST | WEST
100 | 100
M5-1L 21"X21" | M5-1R 21"X21"

R11-2L 48" X 30"
LANE CLOSED
TYPE III BARRICADE

R11-2 48" X 30"
ROAD CLOSED
TYPE III BARRICADE

R11-2L 48" X 30"
LANE CLOSED
TYPE III BARRICADE

50'

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 4B	SHEET 572	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026303_S4B.DWG
LAYOUT NAME - 026310
PLOT DATE : 4/30/2021 11:38 AM
PLOT BY : TONY BUBLITZ
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

11+00

12+00

13+00

14+00

15+00

16+00

17+00

R/L RAMP C

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

M2-1
21"X15"
M1-6
24"X24"
JCT
100

R/L RAMP C

127+00

128+00

129+00

130+00

131+00

132+00

R/L STH 57

STH 57 (N. GREEN BAY ROAD)

50'

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

W3-3
36"X36"

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 4B	SHEET 573	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026303_S4B.DWG
LAYOUT NAME - 026311

PLOT DATE : 4/30/2021 11:40 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

ROAD WORK AHEAD
W20-1A

N. DEERWOOD DRIVE

END ROAD WORK
G20-2A
48"X24"

STOP
R1-1F
30"X30"

350'

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

WO1-6
48" X 24"
TYPE III BARRICADE

STOP
R1-1F
30"X30"

R/L RAMP C

17+00

50'

12'

133+00

134+00

135+00

136+00

137+00

138+00

STH 57 (N. GREEN BAY ROAD)

BEGIN LEFT TURN LANE
R3-20L
24"X36"

T4W

ONLY
R3-8A
36"X30"

TSL

STOP
R1-1F
30"X30"

SIDEWALK CLOSED
R9-9
24"X12"

N. DEERWOOD DRIVE

STOP
R1-1F
30"X30"

350'

END ROAD WORK
G20-2A
48"X24"

ROAD WORK AHEAD
W20-1A

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 4B	SHEET 574	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026303_S4B.DWG
LAYOUT NAME - 026312

PLOT DATE : 4/30/2021 11:41 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

MATCHLINE STA 142+85.00

MATCHLINE STA 138+00.00

INL

INL

INL

MH

MH

N

R/L STH 57

STH 57

ONLY
R3-8A
36"X30"

BEGIN LEFT TURN LANE
R3-20L
24"X36"

T4W

T4Y

T4Y

12'

10'

2'

12'

2'

139+00

140+00

141+00

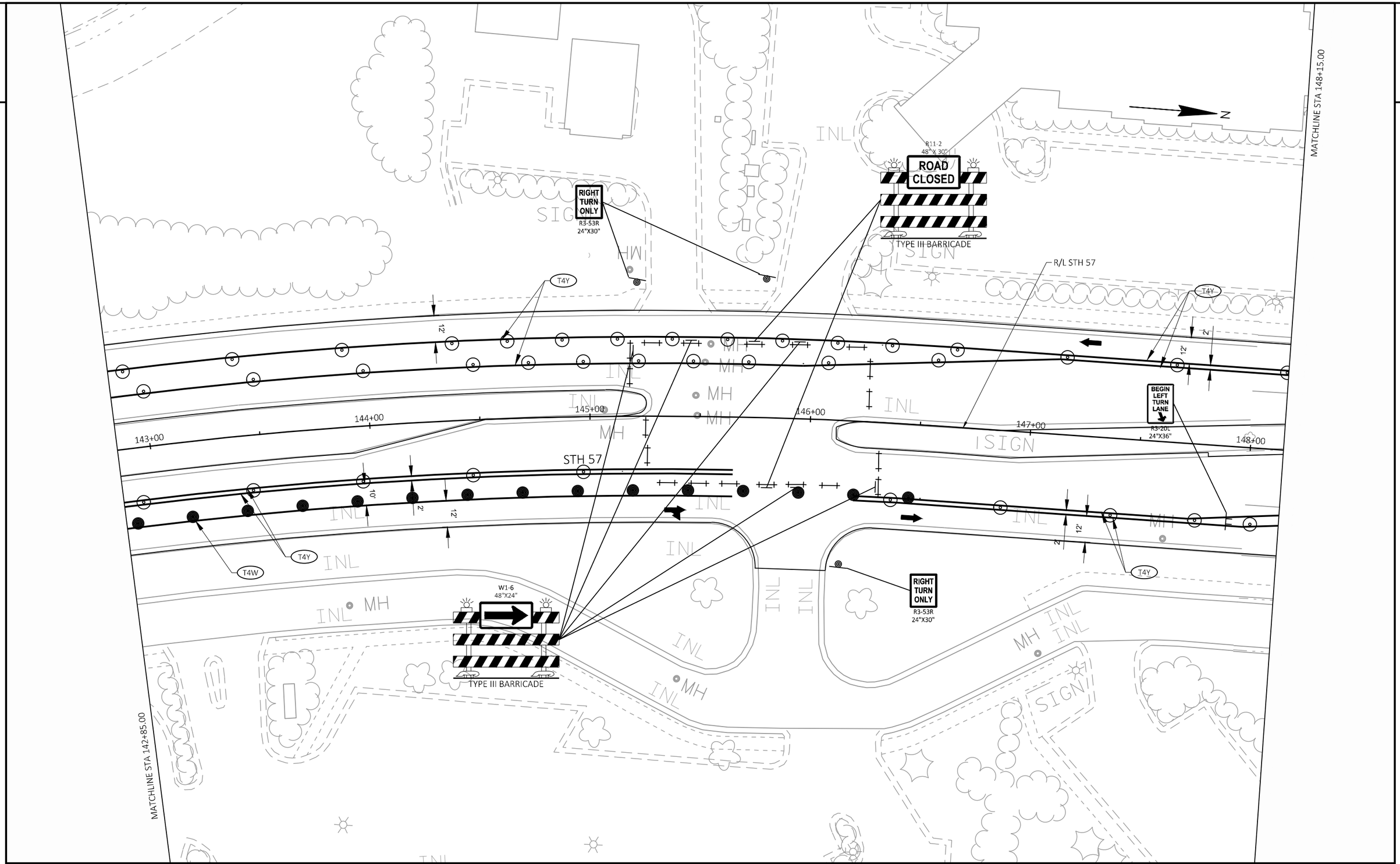
142+00

R11-2L
48"X30"
LANE CLOSED
TYPE III BARRICADE

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 4B	SHEET 575	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026302_S4.DWG
LAYOUT NAME - 026414
PLOT DATE : 3/25/2021 8:05 AM PLOT BY : NICHOLAS BOBINSKI, PE PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 4B	SHEET 576	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026302_S4.DWG
LAYOUT NAME - 026415
PLOT DATE : 3/25/2021 8:06 AM
PLOT BY : NICHOLAS BOBINSKI, PE
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

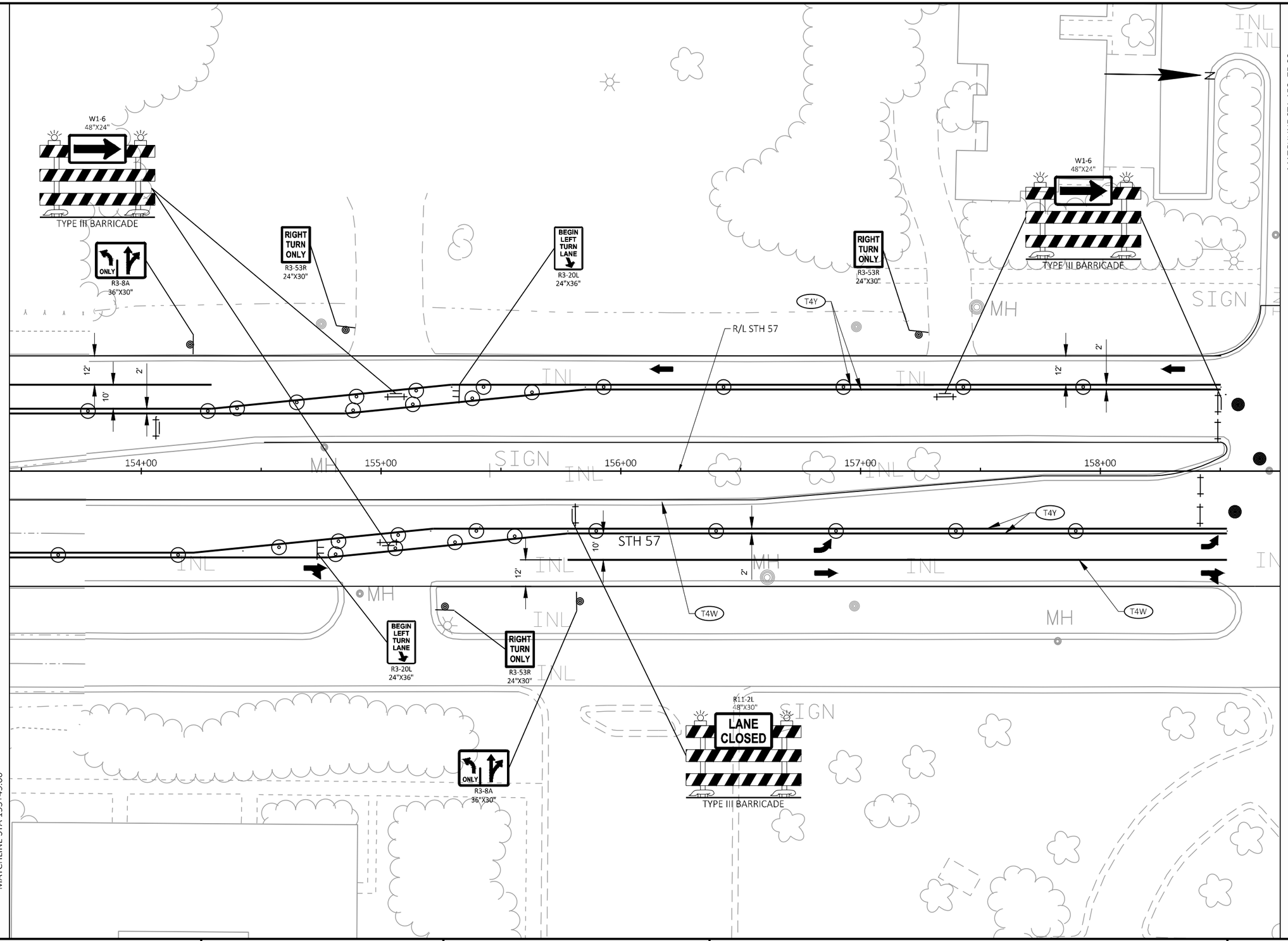
ROAD WORK AHEAD
W20-1A
350'
SCHROEDER DR
END ROAD WORK
G20-2A
48"X24"
N
MATCHLINE STA 153+45.00
INL
SIGN
W1-6
48"X24"
RIGHT TURN ONLY
R3-53R
24"X30"
TYPE III BARRICADE
T4Y
T4W
T4L
12'
2'
10'
STH 57
149+00
150+00
151+00
152+00
153+00
R/L STH 57
ONLY
R3-8A
36"X30"
MATCHLINE STA 148+15.00
SIGN
END ROAD WORK
G20-2A
48"X24"
ROAD WORK AHEAD
W20-1A

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 4B	SHEET 577	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026302_S4.DWG
LAYOUT NAME - 026416

PLOT DATE : 3/25/2021 8:06 AM PLOT BY : NICHOLAS BOBINSKI, PE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42



2

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 4B	SHEET 578	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026302_S4.DWG
LAYOUT NAME - 026417
PLOT DATE : 3/25/2021 8:06 AM
PLOT BY : NICHOLAS BOBINSKI, PE
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

DEER RUN DR

MH

INL

R11-2L
48"X30"

LANE CLOSED

TYPE III BARRICADE

ONLY

R3-8A
36"X30"

RIGHT TURN ONLY
R3-53R
24"X30"

RIGHT TURN ONLY
R3-53R
24"X30"

BEGIN LEFT TURN LANE
R3-20L
24"X36"

N

MATCHLINE STA 164+05.00

T4W

T4Y

STH 57

12'

2'

10'

159+00

160+00

161+00

162+00

163+00

164+00

R/L STH 57

W1-6
48"X24"

TYPE III BARRICADE

R11-2
48" X 30"

ROAD CLOSED

TYPE III BARRICADE

RIGHT TURN ONLY
R3-53R
24"X30"

W1-6
48"X24"

TYPE III BARRICADE

MATCHLINE STA 158+75.00

2

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 4B	SHEET 579	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026302_S4.DWG
LAYOUT NAME - 026418

PLOT DATE : 3/25/2021 8:07 AM PLOT BY : NICHOLAS BOBINSKI, PE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

MATCHLINE STA 0+00.00

MATCHLINE STA 164+05.00

N

W1-6
48"X24"

R11-2
48" X 30"
ROAD CLOSED

R11-2L
48"X30"
LANE CLOSED

TYPE III BARRICADE

R/L STH 57

STH 57

T4Y

12'

INL

MH

165+00

166+00

167+00

168+00

169+00

RIGHT TURN ONLY
R3-53R
24"X30"

BEGIN LEFT TURN LANE
R3-20L
24"X36"

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 4B	SHEET 580	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026302_S4.DWG
LAYOUT NAME - 026419

PLOT DATE : 3/25/2021 8:07 AM PLOT BY : NICHOLAS BOBINSKI, PE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

ROAD WORK AHEAD
W20-1A

COUNTY LINE RD

N

END ROAD WORK
G20-2A
48"X24"

MATCHLINE STA 174+65.00

W1-6
48"X24"

TYPE III BARRICADE

MH

/ SIGN

SIGN

INL

T4Y

T4W

12'

2'

10'

STH 57

170+00

171+00

172+00

173+00

174+00

R/L STH 57

ONLY
R3-8A
36"X30"

END ROAD WORK
G20-2A
48"X24"

MAX. 11' WIDTH
W12-52
48"X48"

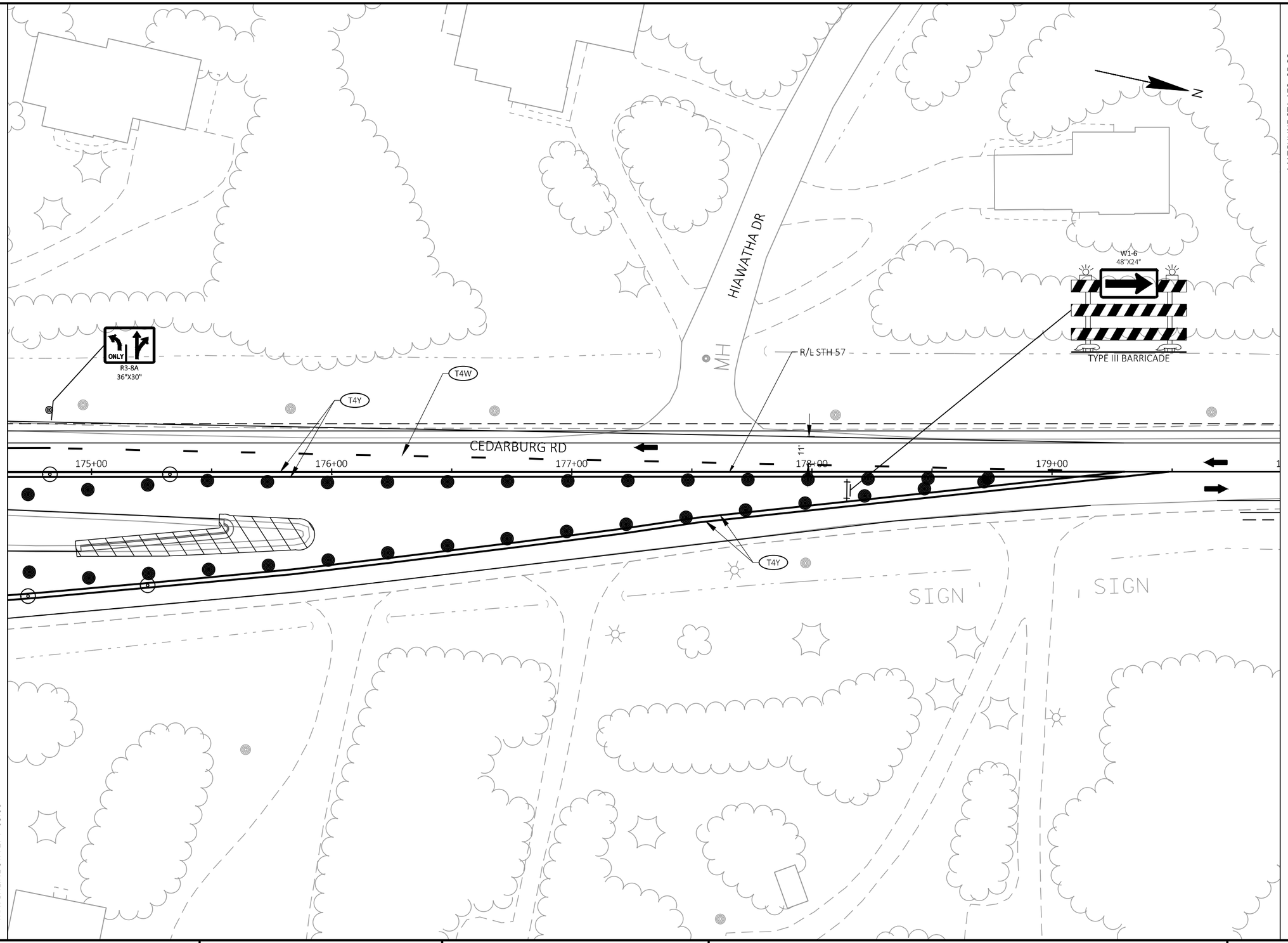
ROAD WORK AHEAD
W20-1A

MATCHLINE STA 0+00.00

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 4B	SHEET 581	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026302_S4.DWG
LAYOUT NAME - 026420
PLOT DATE : 3/25/2021 8:08 AM
PLOT BY : NICHOLAS BOBINSKI, PE
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 4B	SHEET 582	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026302_S4.DWG
LAYOUT NAME - 026421

PLOT DATE : 3/25/2021 8:08 AM PLOT BY : NICHOLAS BOBINSKI, PE PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

MATCHLINE STA 185+25.00

N

R/L STH 57

80+00 181+00 182+00 183+00 184+00 185+00

CEDARBURG RD

SIGN

MATCHLINE STA 179+95.00

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 4B	SHEET 583	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026302_S4.DWG
LAYOUT NAME - 026422

PLOT DATE : 3/25/2021 8:08 AM PLOT BY : NICHOLAS BOBINSKI, PE PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

MATCHLINE STA 190+55.00

INL

SIGN

R/L STH 57

MH

186+00

187+00

188+00

189+00

190+00

CEDARBURG RD

MH

MH

SIGN

SIGN

MATCHLINE STA 185+25.00

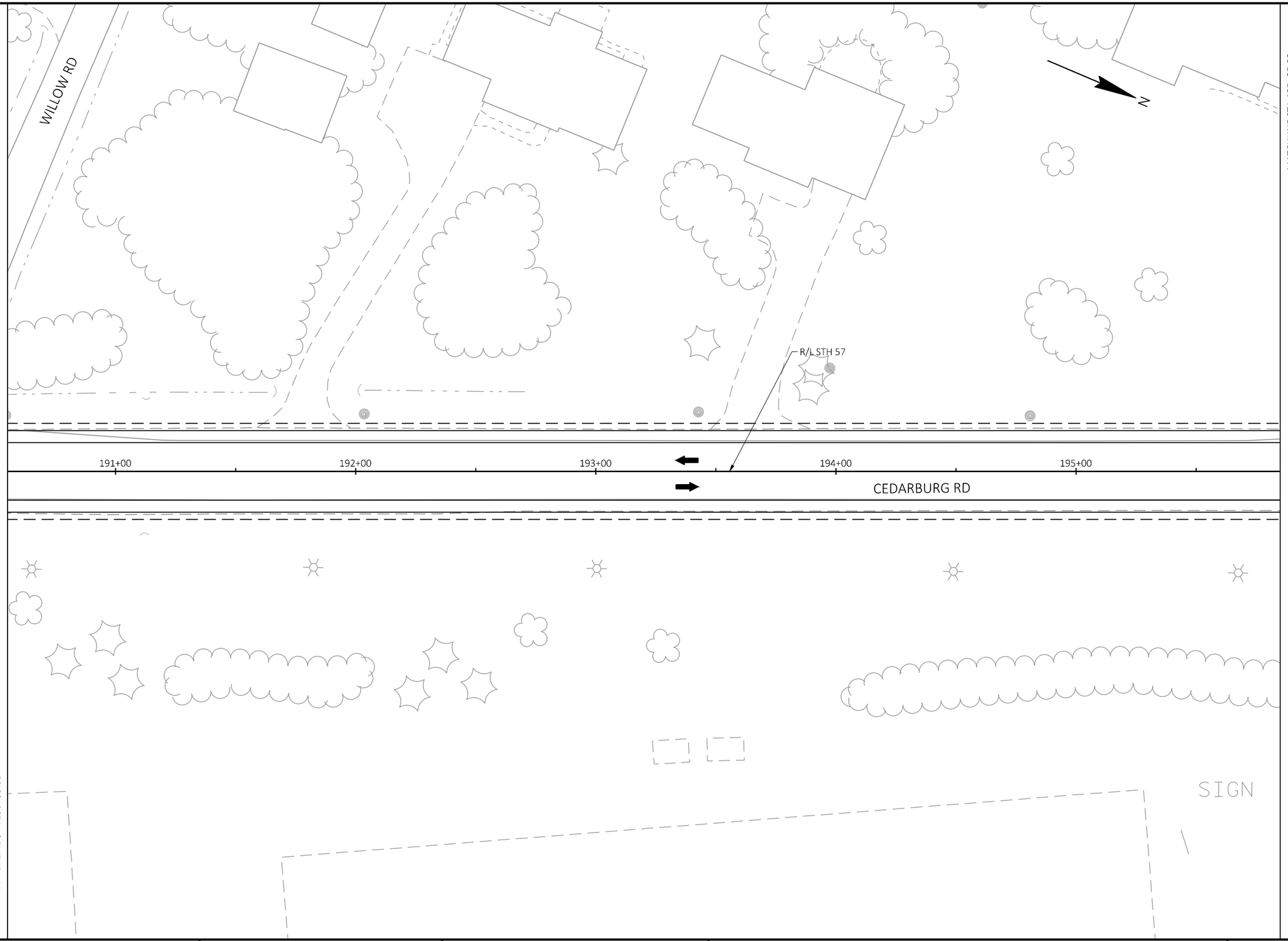
PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 4B	SHEET 584	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026302_S4.DWG
LAYOUT NAME - 026423

PLOT DATE : 3/25/2021 8:09 AM PLOT BY : NICHOLAS BOBINSKI, PE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

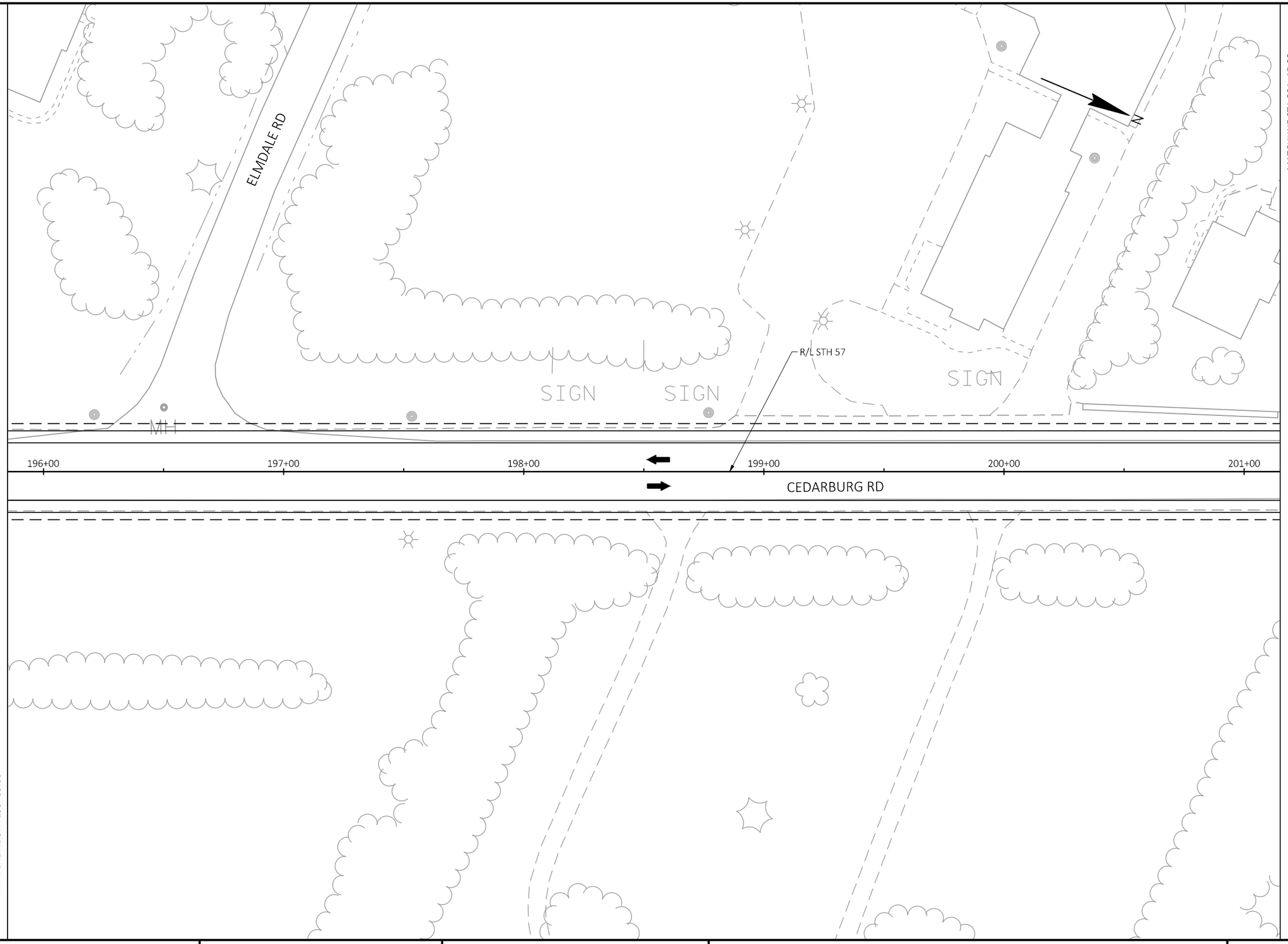


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PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 4B	SHEET 585	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026302_S4.DWG
LAYOUT NAME - 026424
PLOT DATE : 3/25/2021 8:09 AM
PLOT BY : NICHOLAS BOBINSKI, PE
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



2

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 4B	SHEET 586	E

2

2

N

MATCHLINE STA 206+45.00

R/L STH 57

202+00 203+00 204+00 205+00 206+00

CEDARBURG RD

MATCHLINE STA 201+15.00

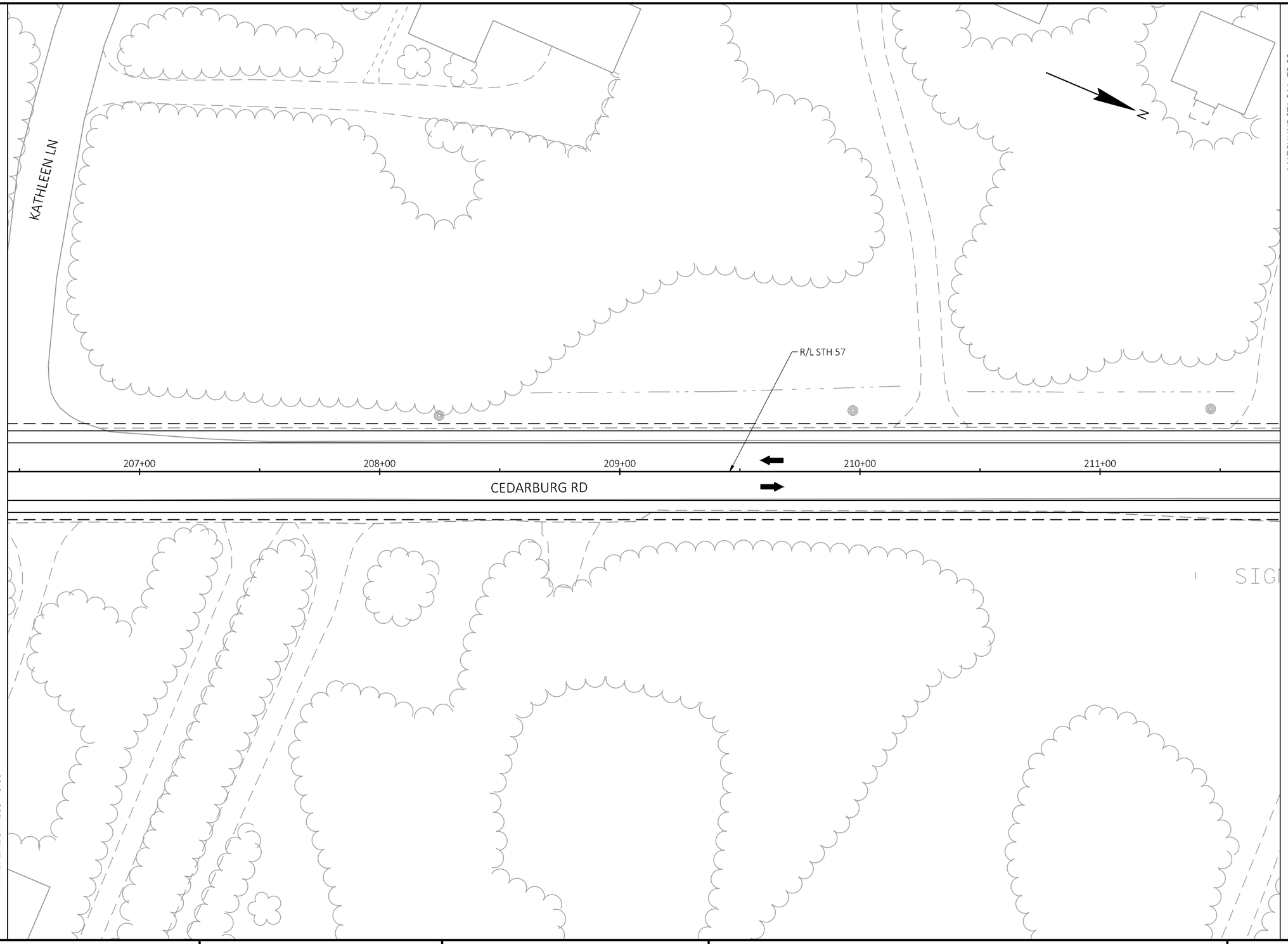
PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 4B	SHEET 587	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026302_S4.DWG
LAYOUT NAME - 026426

PLOT DATE : 3/25/2021 8:10 AM PLOT BY : NICHOLAS BOBINSKI, PE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



2

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 4B	SHEET 588	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026302_S4.DWG
LAYOUT NAME - 026427
PLOT DATE : 3/25/2021 8:10 AM
PLOT BY : NICHOLAS BOBINSKI, PE
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

WESTFIELD RD

MATCHLINE STA 217+05.00

N

R/L STH 57

212+00 213+00 214+00 215+00 216+00 217+0

CEDARBURG RD

N

MATCHLINE STA 211+75.00

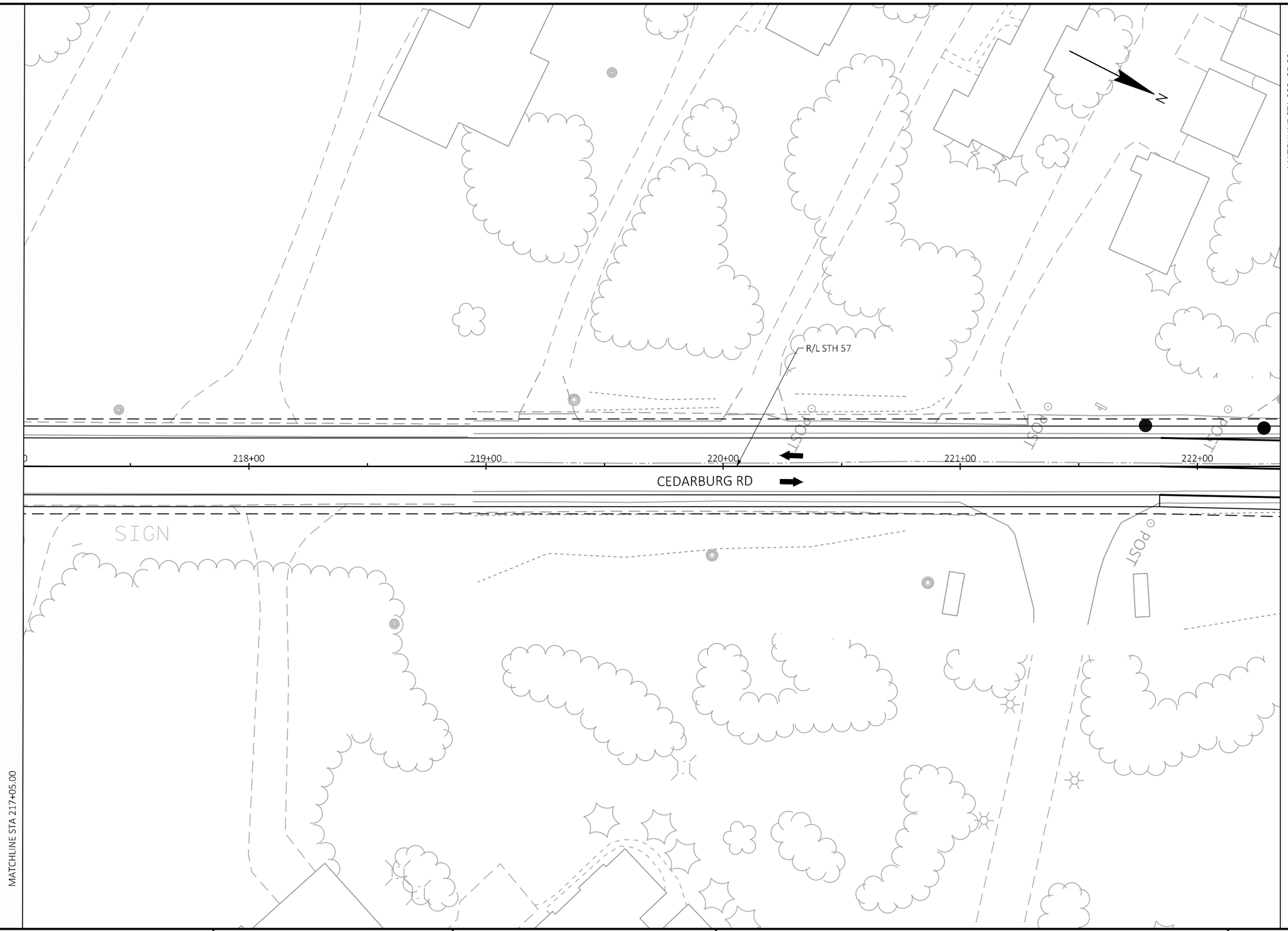
PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 4B	SHEET 589	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026302_S4.DWG
LAYOUT NAME - 026428

PLOT DATE : 3/25/2021 8:10 AM PLOT BY : NICHOLAS BOBINSKI, PE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



2

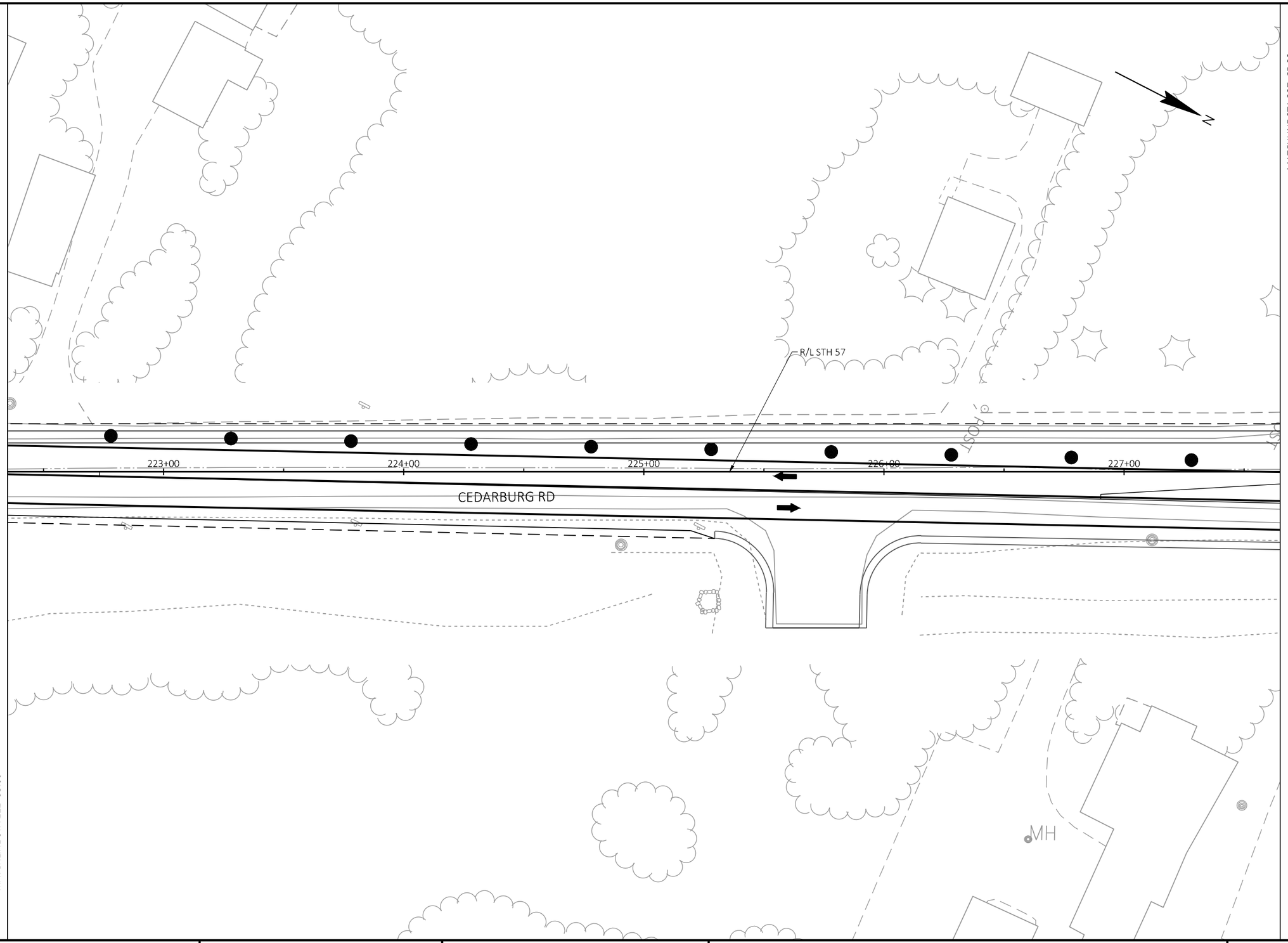
PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 4B	SHEET 590	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026302_S4.DWG
LAYOUT NAME - 026429

PLOT DATE : 3/25/2021 8:11 AM PLOT BY : NICHOLAS BOBINSKI, PE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



2

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 4B	SHEET 591	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026302_S4.DWG
LAYOUT NAME - 026430
PLOT DATE : 3/25/2021 8:11 AM
PLOT BY : NICHOLAS BOBINSKI, PE
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

R11-2L
48"X30"
LANE CLOSED
TYPE III BARRICADE

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

R/L STH 57

MATCHLINE STA 232+95.00

228+00 229+00 230+00 231+00 232+00

CEDARBURG RD

DONGES BAY RD

SIGN

FILLER CAPS

R11-2 (MOD)
48" X 30"
LOCAL TRAFFIC ONLY
TYPE III BARRICADE

STOP
R1-1
36"X36"

POST

MATCHLINE STA 227+65.00

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 4B	SHEET 592	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026302_S4.DWG
LAYOUT NAME - 026431

PLOT DATE : 3/25/2021 8:11 AM PLOT BY : NICHOLAS BOBINSKI, PE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

MATCHLINE STA 238+25.00

RIGHT SHOULDER CLOSED
W21-5A

33+00
234+00
235+00
236+00
237+00
238+00

CEDARBURG RD

SIGN
POST
POST
POST

R/L STH 57

MATCHLINE STA 232+95.00

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 4B	SHEET 593	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026302_S4.DWG
LAYOUT NAME - 026432

PLOT DATE : 3/25/2021 8:12 AM PLOT BY : NICHOLAS BOBINSKI, PE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

BAYBERRY PKWY

SIGN

MATCHLINE STA 243+55.00

239+00 240+00 241+00 242+00 243+00

CEDARBURG RD

R/L STH 57

MATCHLINE STA 238+25.00

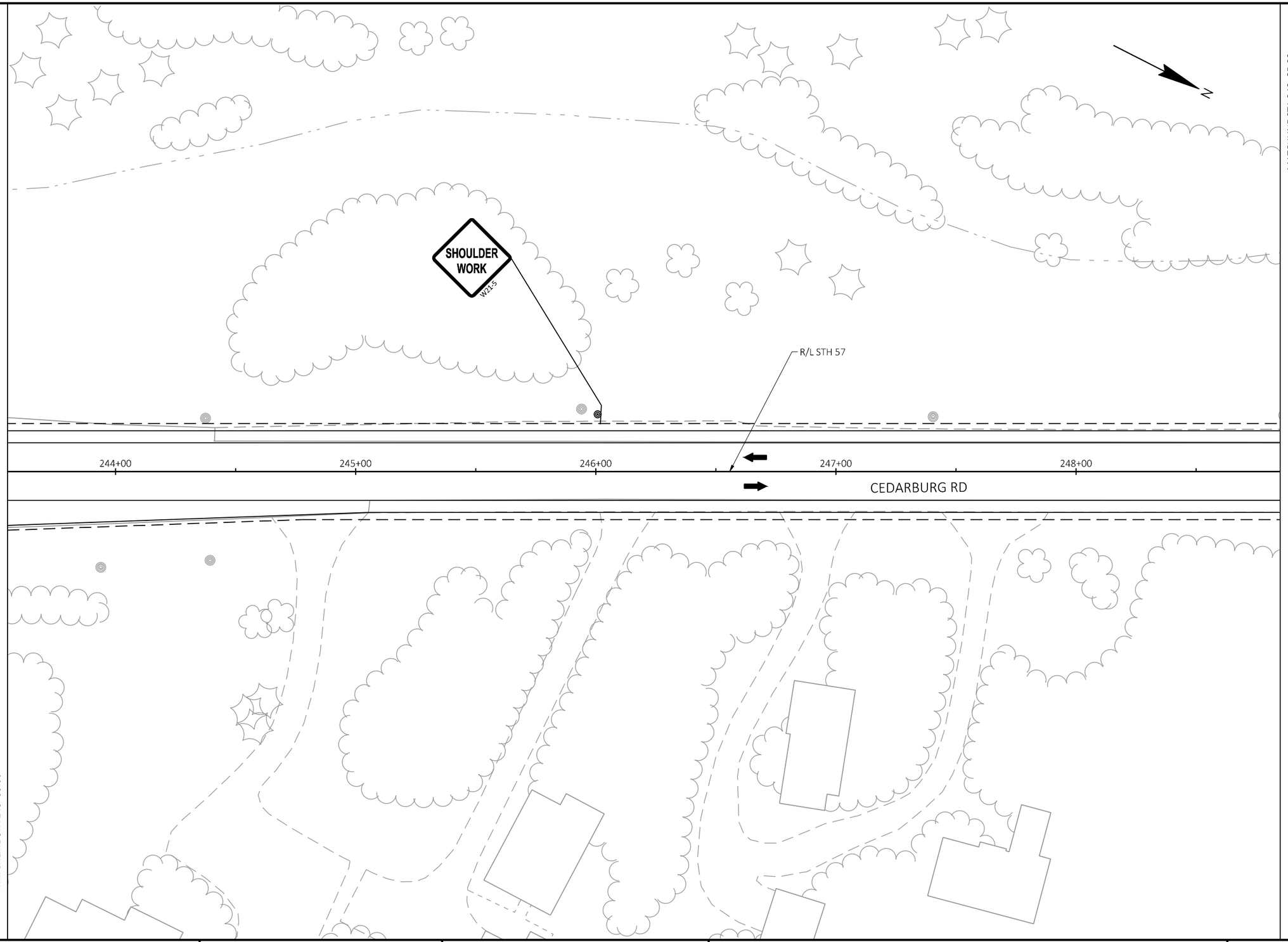
PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 4B	SHEET 594	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026302_S4.DWG
LAYOUT NAME - 026433

PLOT DATE : 3/25/2021 8:12 AM PLOT BY : NICHOLAS BOBINSKI, PE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

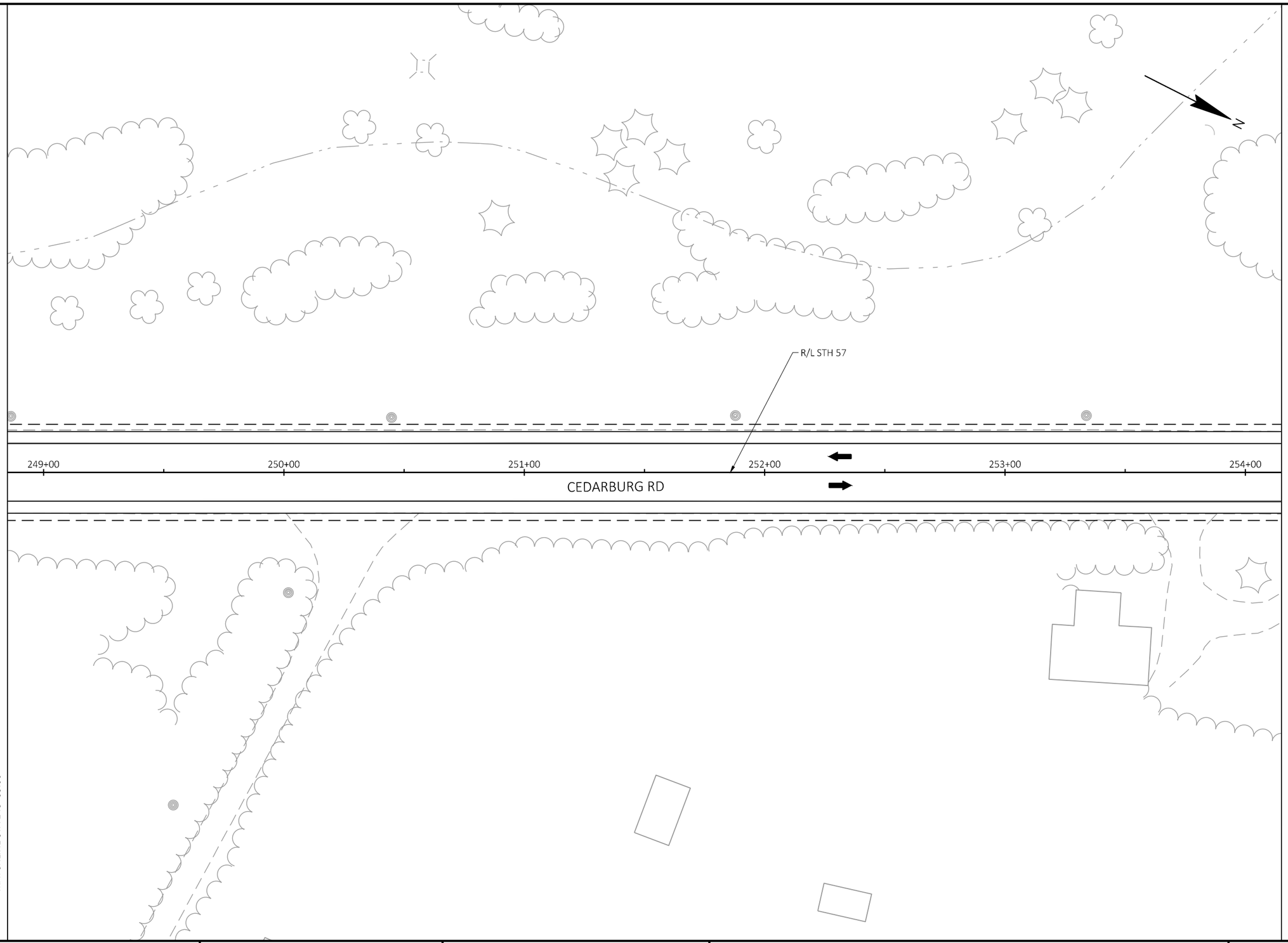


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PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 4B	SHEET 595	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026302_S4.DWG
LAYOUT NAME - 026434
PLOT DATE : 3/25/2021 8:13 AM PLOT BY : NICHOLAS BOBINSKI, PE PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

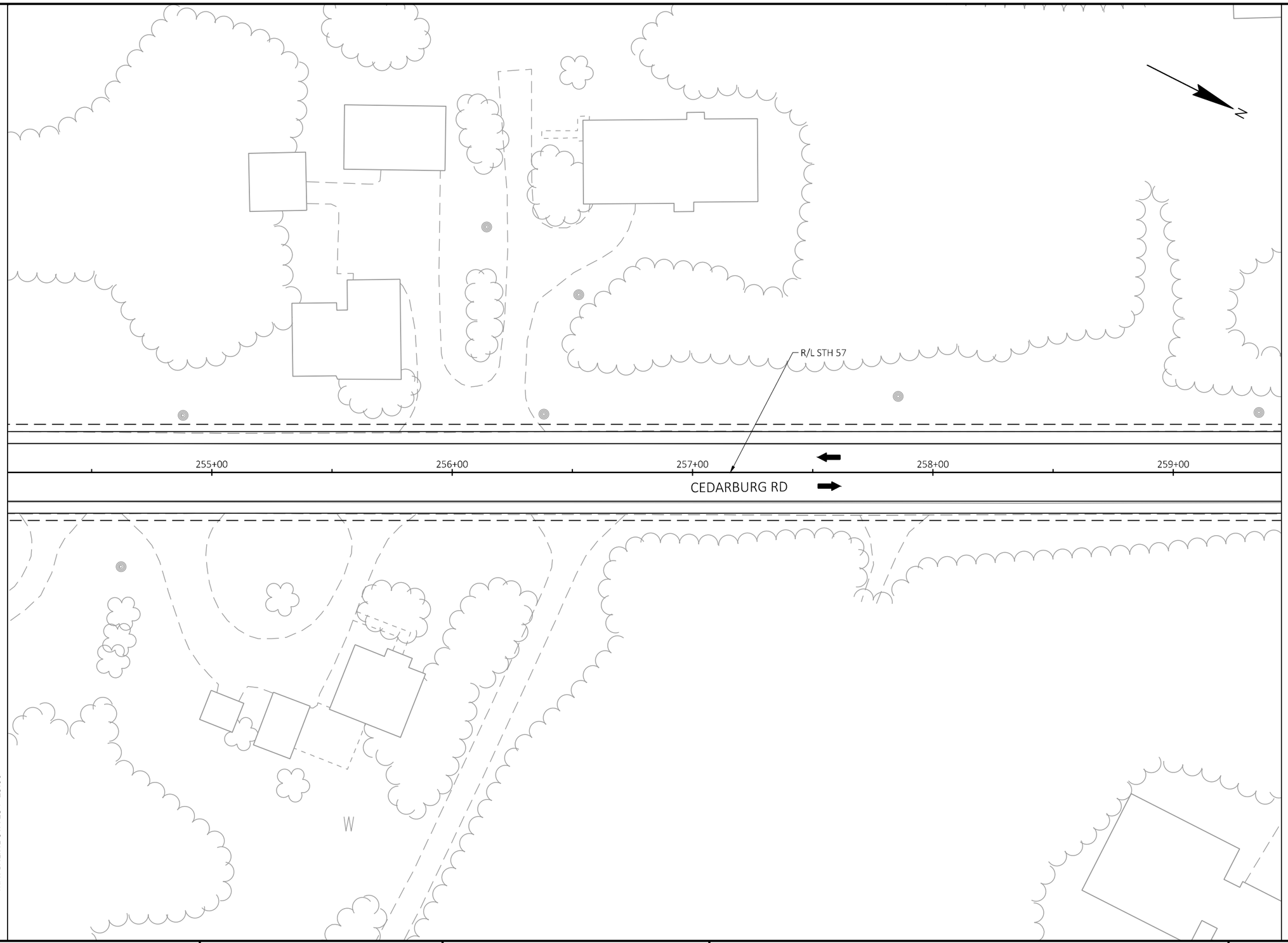


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PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 4B	SHEET 596	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026302_S4.DWG
LAYOUT NAME - 026435
PLOT DATE : 3/25/2021 8:13 AM
PLOT BY : NICHOLAS BOBINSKI, PE
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



2

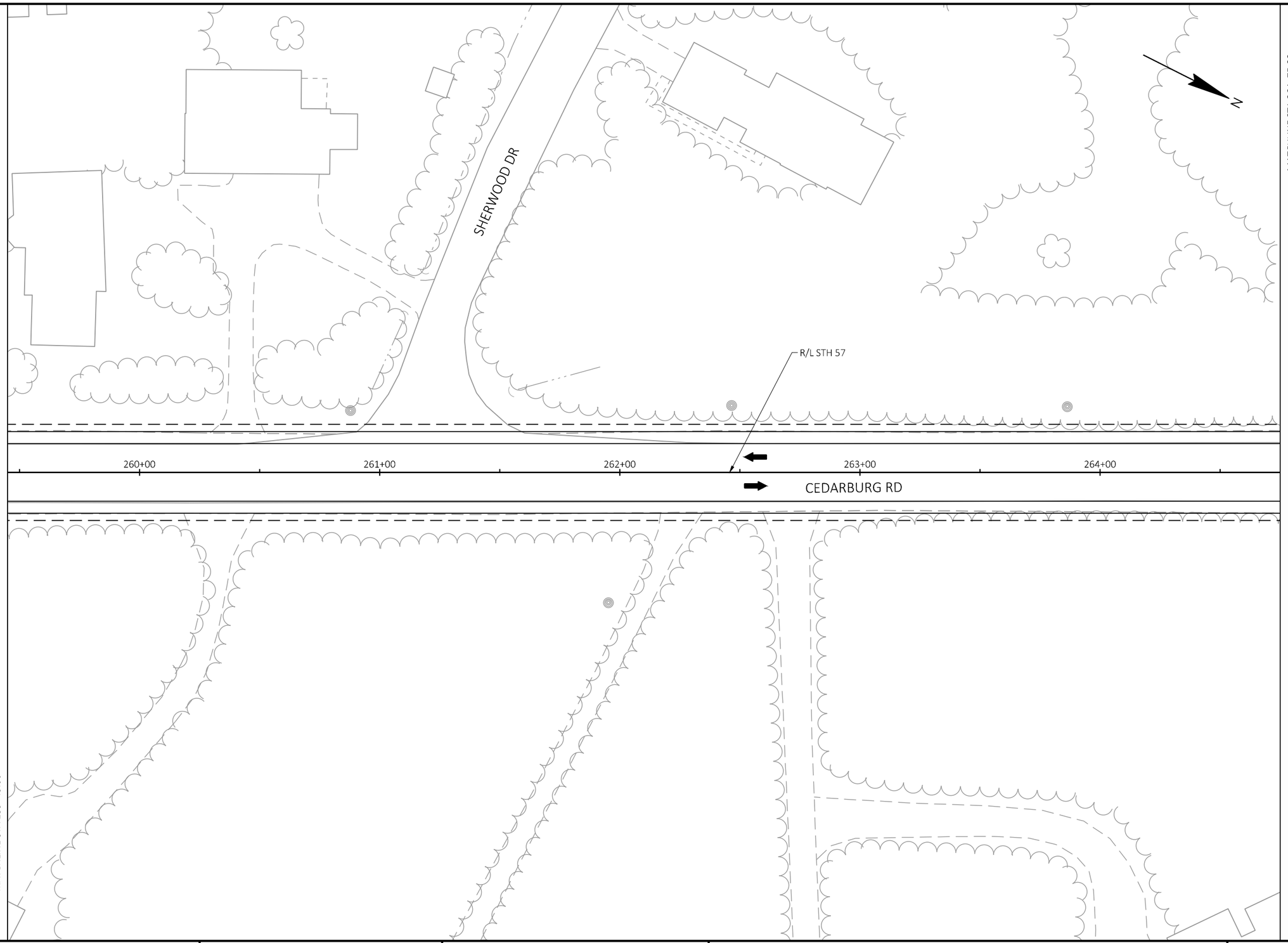
PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 4B	SHEET 597	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026302_S4.DWG
LAYOUT NAME - 026436

PLOT DATE : 3/25/2021 8:13 AM PLOT BY : NICHOLAS BOBINSKI, PE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

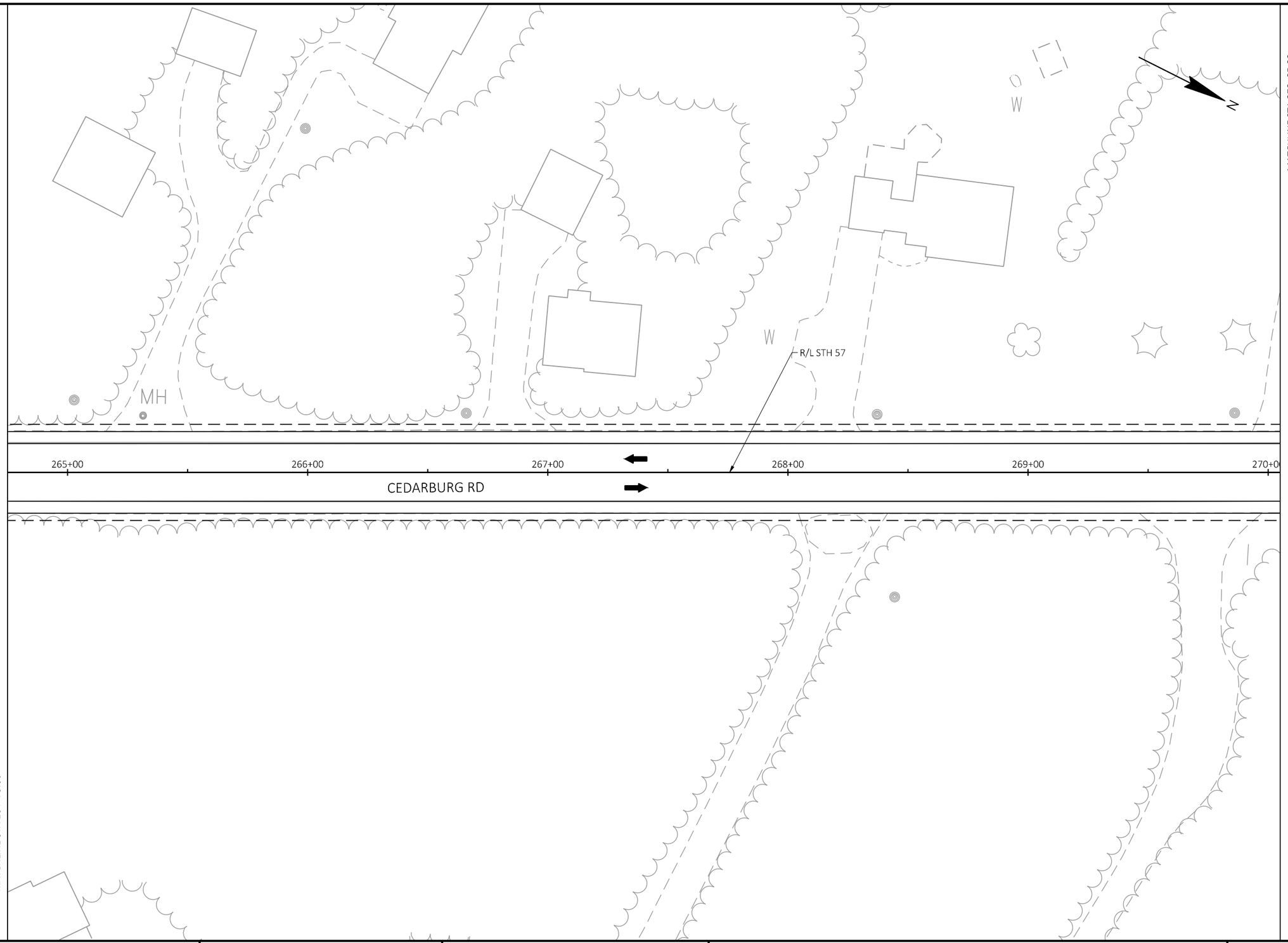


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PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 4B	SHEET 598	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026302_S4.DWG
LAYOUT NAME - 026437
PLOT DATE : 3/25/2021 8:14 AM
PLOT BY : NICHOLAS BOBINSKI, PE
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

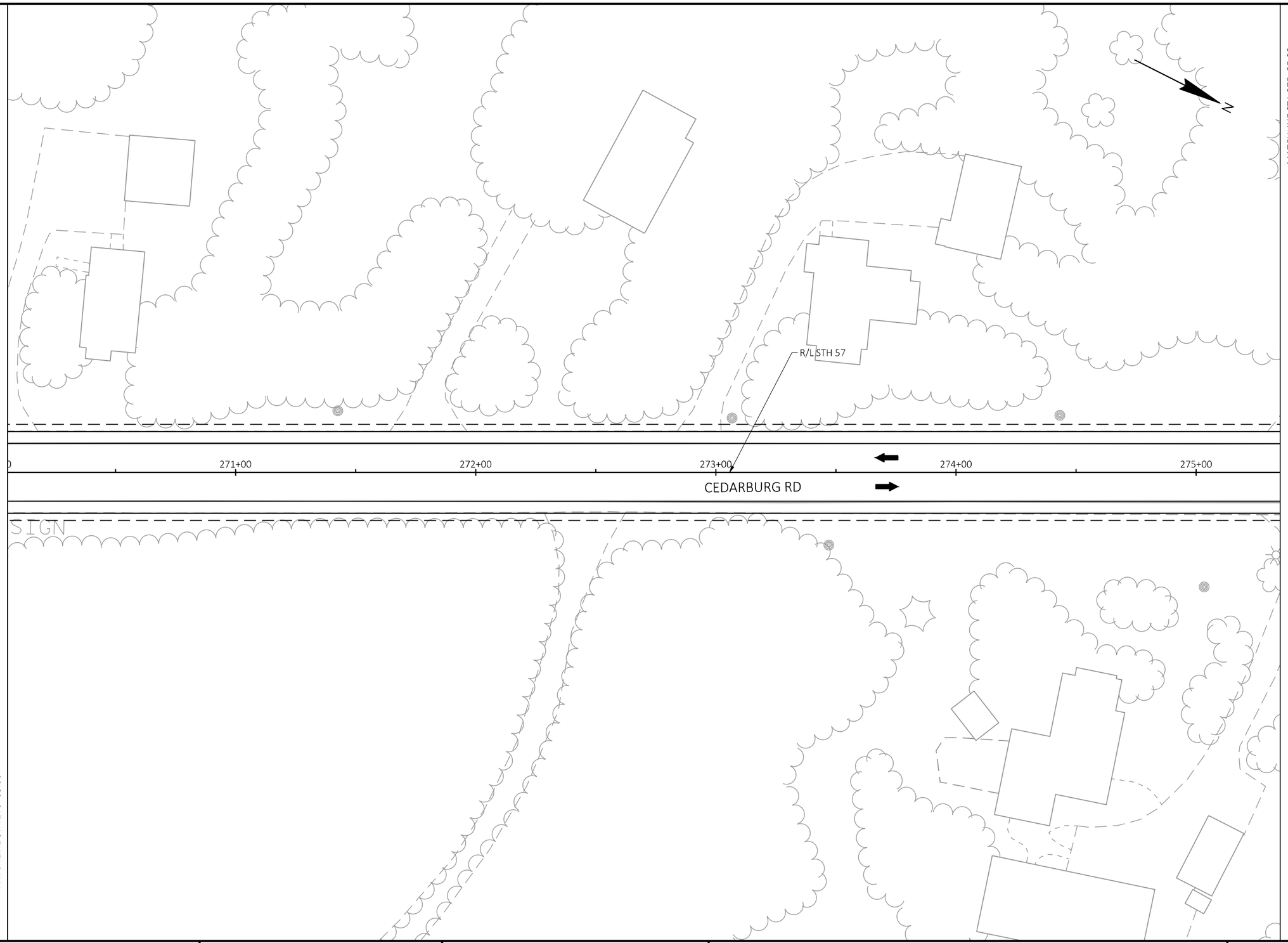


2

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 4B	SHEET 599	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026302_S4.DWG
LAYOUT NAME - 026438
PLOT DATE : 3/25/2021 8:14 AM PLOT BY : NICHOLAS BOBINSKI, PE PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



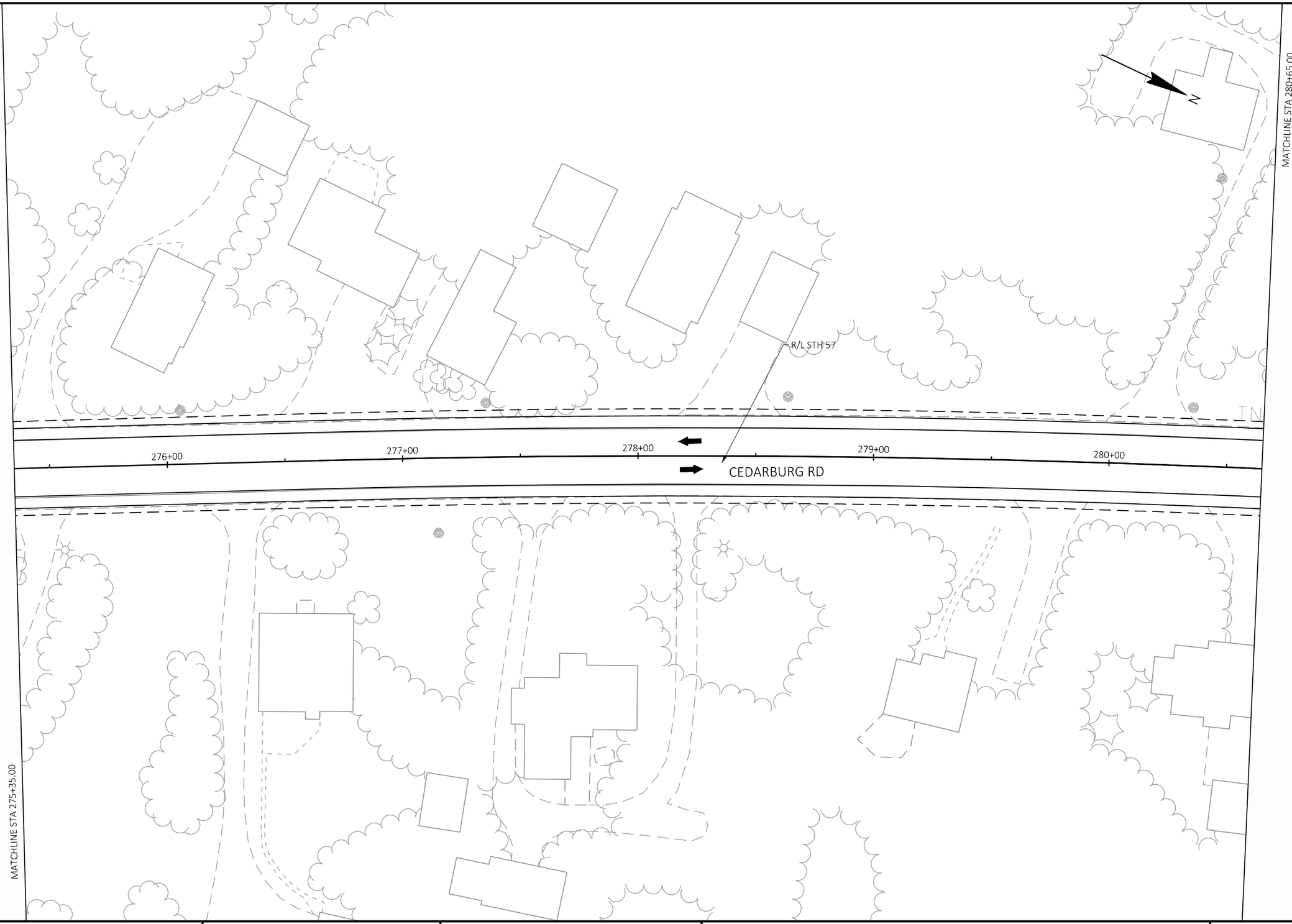
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PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 4B	SHEET 600	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026302_S4.DWG
LAYOUT NAME - 026439
PLOT DATE : 3/25/2021 8:14 AM PLOT BY : NICHOLAS BOBINSKI, PE PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2



PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 4B	SHEET 601	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026302_S4.DWG
LAYOUT NAME - 026440

PLOT DATE : 3/25/2021 8:15 AM PLOT BY : NICHOLAS BOBINSKI, PE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

MATCHLINE STA 285+95.00

MH

SIGN

R/L STH 57

ROAD WORK
NEXT 3 MILES
G20-1
60"X24"

INL

MH

281+00 282+00 283+00 284+00 285+00

CEDARBURG RD

SIGN

END
ROAD WORK
G20-2A
48"X24"

W

W

MATCHLINE STA 280+65.00

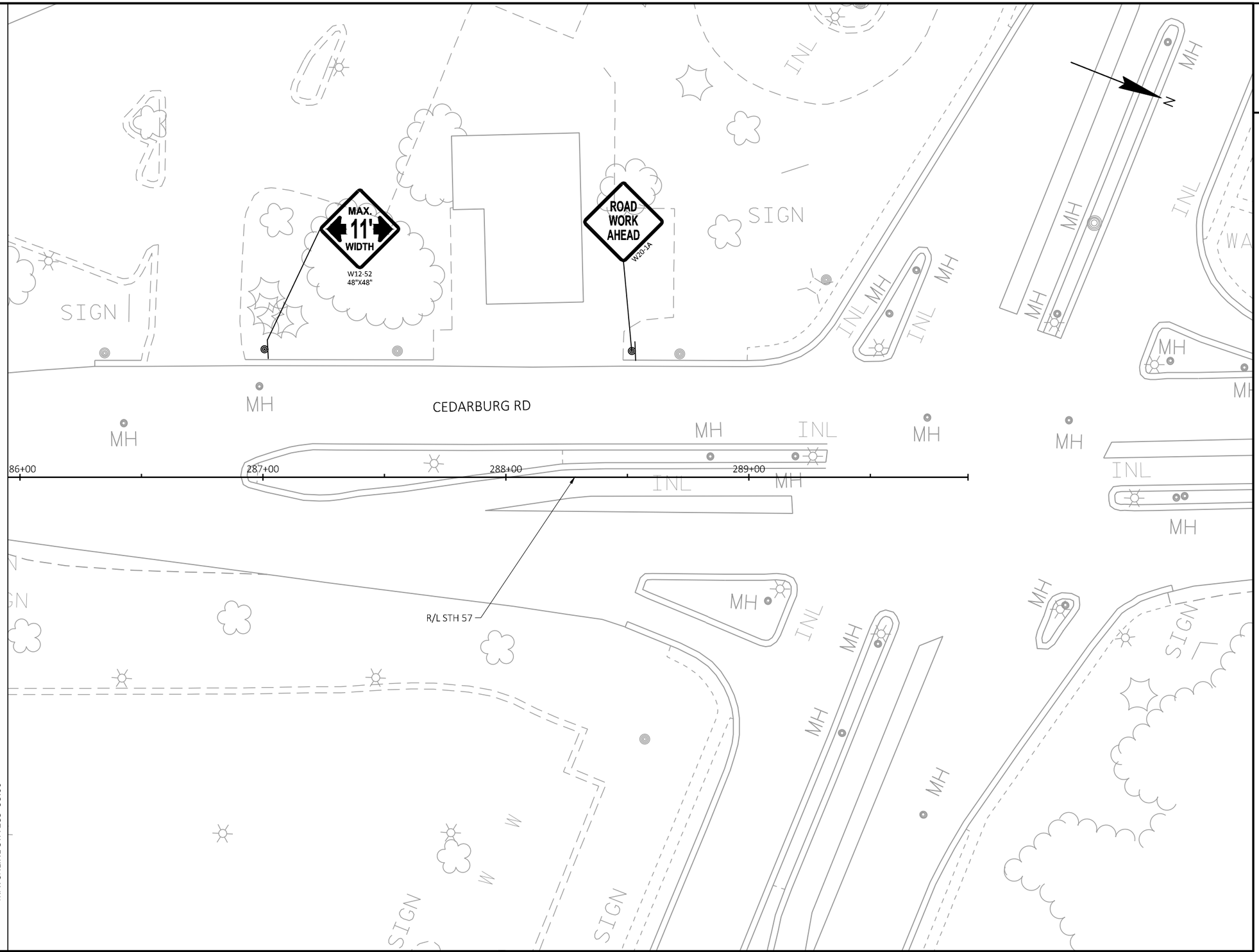
PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 4B	SHEET 602	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026302_S4.DWG
LAYOUT NAME - 026441

PLOT DATE : 3/25/2021 8:15 AM PLOT BY : NICHOLAS BOBINSKI, PE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 4B	SHEET 603	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026302_S4.DWG
LAYOUT NAME - 026442

PLOT DATE : 3/25/2021 8:15 AM PLOT BY : NICHOLAS BOBINSKI, PE PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

ROAD WORK AHEAD
W20-1A

END ROAD WORK
G20-2A
48"X24"

350'

N 51ST ST

S

S

W

464+00 465+00 466+00 467+00 468+00 469+00 470+00

R/L STH 100

T4Y

STH 100 (W. BROWN DEER ROAD)

320'
MERGING
TAPER

350' 350' 350'

SIGN

ROAD WORK AHEAD
W20-1A

350'

LEFT LANE CLOSED AHEAD
W20-5SA

W04-2L

END ROAD WORK
G20-2A
48"X24"

ROAD WORK AHEAD
W20-1A

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 4B	SHEET 604	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026304_S4B.DWG
LAYOUT NAME - 026348

PLOT DATE : 7/22/2021 2:34 PM PLOT BY : JOE MAAS PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

N

ROAD WORK AHEAD
W20-1A

350'

N ARBON DR

END ROAD WORK
G20-2A
48"X24"

470+00 471+00 472+00 473+00 474+00 475+00

R/L STH 100

T4Y

STH 100 (W. BROWN DEER ROAD)

12'

14'

320' MERGING TAPER

WO1-6
48" X 24"

TYPE III BARRICADE

BEGIN LEFT TURN LANE
R3-20L
24"X36"

SPEED LIMIT 40
R2-1
24"X30"

T8W

R11-2L
48" X 30"
LANE CLOSED

TYPE III BARRICADE

END ROAD WORK
G20-2A
48"X24"

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 4B	SHEET 605	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026304_54B.DWG
LAYOUT NAME - 026349
PLOT DATE : 7/22/2021 2:35 PM PLOT BY : JOE MAAS PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

ROAD WORK AHEAD
W20-1A

350'

N ARBON DR

END ROAD WORK
G20-2A
48"X24"

BEGIN LEFT TURN LANE
R3-20L
24"X36"

N

476+00

477+00

478+00

479+00

480+00

481+00

R/L STH 100

12'

12'

STH 100 (W. BROWN DEER ROAD)

T8W

T4Y

WO1-6
48" X 24"

TYPE III BARRICADE

350'

ROAD WORK AHEAD
W20-1A

W10-1
36"X36"

BEGIN LEFT TURN LANE
R3-20L
24"X36"

R11-2L
48" X 30"

LANE CLOSED

TYPE III BARRICADE

WO1-4BR

WO1-6
48" X 24"

TYPE III BARRICADE

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 4B	SHEET 606	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026304_S4B.DWG
LAYOUT NAME - 026350

PLOT DATE : 7/22/2021 2:35 PM PLOT BY : JOE MAAS PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

ROAD WORK AHEAD
W20-1A

SEE "DETOUR PLAN: BROWN DEER TRAIL CLOSURE" FOR PEDESTRIAN DETOUR SIGNS

SIDEWALK CLOSED
R9-9
24"X12"

R3-2
24"X24"

STOP
R1-1
30"X30"

END ROAD WORK
G20-2A
48"X24"

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

350'

WO4-3R
48"X48"

N. DEERBROOK TRAIL

CANADIAN NATIONAL RAILWAY

STH 100 (W. BROWN DEER ROAD)

482+00 483+00 484+00 R/L STH 100 485+00 486+00 487+00

T4Y T24W T4Y T4W

WO1-6
48" X 24"
TYPE III BARRICADE

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

R3-2
24"X24"

WO1-6
48" X 24"
TYPE III BARRICADE

SIDEWALK CLOSED
R9-9
24"X12"

END ROAD WORK
G20-2A
48"X24"

N. DEERBROOK TRAIL

STOP
R1-1
30"X30"

R3-2
24"X24"

ROAD WORK AHEAD
W20-1A

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 4B	SHEET 607	E

2

END ROAD WORK
G20-2A
48"X24"

R3-2
24"X24"

W10-1
36"X36"

WO1-6
48" X 24"
TYPE III BARRICADE

ROAD CLOSED AHEAD
W20-3A

ROAD CLOSED 500 FT
W20-3D

PLACE SIGN AT DEERBROOK TR

SIDEWALK CLOSED
R9-9
24"X12"

500'

N. DEERWOOD DRIVE

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

N

T4W

R/L STH 100

487+00

488+00

489+00

490+00

491+00

492+00

493+00

11'

11'

5'

STH 100 (W. BROWN DEER ROAD)

T4Y

T4W

W3-3
36"X36"

W06-3

JCT
57
M2-1
21"X15"
M1-6
24"X24"

WO1-6
48" X 24"
TYPE III BARRICADE

N. DEERWOOD DRIVE

350'

STOP
R1-1
30"X30"

R3-2
24"X24"

ROAD WORK AHEAD
W20-1A

STOP
R1-1
30"X30"

R3-2
24"X24"

ROAD WORK AHEAD
W20-1A

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 4B	SHEET 608	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026304_S4B.DWG
LAYOUT NAME - 026352
PLOT DATE : 7/22/2021 2:37 PM
PLOT BY : JOE MAAS
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

N

STH 57 (N. GREEN BAY ROAD)

R/L STH 57

R/L STH 100

STH 100 (W. BROWN DEER ROAD)

493+00 494+00 495+00 496+00 497+00 498+00 499+

8+ 7+00 122+00 121+00 120+00 119+00

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

WO1-4R

STOP
R1-1F
30"X30"

DO NOT ENTER
R5-1
30"X30"

STOP
R1-1F
30"X30"

R3-1
24"X24"

WO1-2R

T4Y

T4W

TSL

50'

11'

COVER
ONLY ONLY ONLY
R3-8RR
54"X30"

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

STOP
R1-1F
30"X30"

R3-2
24"X24"

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

WO6-4
12"X18"

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 4B	SHEET 609	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026304_S4B.DWG
LAYOUT NAME - 026353

PLOT DATE : 7/22/2021 2:37 PM PLOT BY : JOE MAAS PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

STH 57 (N. GREEN BAY ROAD)

NORTH 57 M3-1 24"X12" M1-6 24"X24" M6-1 21"X21"

T4W

T4Y

R11-2 48" X 30" ROAD CLOSED TYPE III BARRICADE

R11-2 48" X 30" ROAD CLOSED TYPE III BARRICADE

NORTH 57 M3-1 24"X12" M1-6 24"X24" M5-2R 21"X21"

N

INL

RIGHT LANE CLOSED AHEAD W20-5A

290' SHIFTING TAPER

499+00 500+00 501+00 502+00 503+00 504+00

R/L STH 100

11' 11' 11' 11'

STH 100 (W. BROWN DEER ROAD)

T4W T4Y T4W T4Y

WO14-4R

WO6-3

WO11-2

AHEAD WO16-9P 24"X12"

2

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 4B	SHEET 610	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026304_S4B.DWG
LAYOUT NAME - 026354

PLOT DATE : 7/22/2021 2:38 PM PLOT BY : JOE MAAS PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

ROAD WORK AHEAD
W20-1A

END ROAD WORK
G20-2A
48"X24"

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

JCT 57
M1-6
24"X24"

STOP
R3-2
24"X24"
R1-1
30"X30"

350'

SIDEWALK CLOSED
R9-9
24"X12"

N. KILDEER COURT

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

WO4-3R
48"X48"

WO11-2
WO16-7L
24"X12"

WATCH FOR TRAFFIC
FMS 8

WO11-2
WO16-7D
24"X12"

SPEED LIMIT 40
R2-1
24"X30"

10'

290'
SHIFTING
TAPER

T8W
T24W
T4W

505+00
506+00
507+00
508+00
509+00
510+00

R/L STH 100

STH 100 (W. BROWN DEER ROAD)

T4Y

WO1-6
48" X 24"
TYPE III BARRICADE

WO4-3L
48"X48"

R3-2
24"X24"

SIDEWALK CLOSED
R9-9
24"X12"

END ROAD WORK
G20-2A
48"X24"

STOP
R1-1
30"X30"

R3-2
24"X24"

SIDEWALK CLOSED
R9-9
24"X12"

ROAD WORK AHEAD
W20-1A

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 4B	SHEET 611	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026304_S4B.DWG
LAYOUT NAME - 026355

PLOT DATE : 4/30/2021 11:28 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

N

WO1-6
48" X 24"

TYPE III BARRICADE

WO11-2

AHEAD

WO16-9P
24"X12"

WO12-1D
24"X24"

NORTH
M3-1
24"X12"

M1-6
24"X24"

100
57

M1-6
24"X24"

M6-2
21"X21"

M6-2
21"X21"

KILDEER
COURT

FMS 9

T4W

T8W

T24W

T4Y

25'

50'

MILWAUKEE RIVER

510+00

511+00

512+00

513+00

514+00

515+00

516+00

R/L STH 100

11'

11'

12'

STH 100 (W. BROWN DEER ROAD)

T4Y

WO11-2

AHEAD

WO16-9P
24"X12"

MILWAUKEE R.

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 4B	SHEET 612	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026304_S4B.DWG
LAYOUT NAME - 026356

PLOT DATE : 4/30/2021 11:29 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

ROAD CLOSED AHEAD
W20-3A
ROAD CLOSED 500 FT
W20-3D
PLACE SIGN AT GREENBROOK RD
500'
W01-4L
N. UPPER RIVER ROAD
R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE
R3-1
24"X24"
T4W
T8W
T24W
WO12-1D
24"X24"
SIGN
516+00
517+00
518+00
519+00
520+00
521+00
522+
25'
11'
T4Y
R/L STH 100
12'
12'
12'
STH 100 (W. BROWN DEER ROAD)
R3-2
24"X24"
R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE
WO6-3
NEXT 1 MILES
WO57-51
48"X24"
680'
SHIFTING TAPER
MH
INL

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 4B	SHEET 613	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026304_S4B.DWG
LAYOUT NAME - 026357
PLOT DATE : 4/30/2021 11:31 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

WO12-1D
24"X24"

T4W

KILDEER COURT
FMS 9

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

WO1-4R
RIGHT LANE
W20-50R
W12-52P
28"X24"

WO1-4L
W20-50L
LEFT LANE
W12-52P
28"x24"

LANE SPLIT
500 FT
FMS
11,12,&14

522+00
523+00
524+00
525+00
526+00
527+00

R/L STH 100

12'
12'
12'

STH 100 (W. BROWN DEER ROAD)

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 4B	SHEET 614	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026304_S4B.DWG
LAYOUT NAME - 026358

PLOT DATE : 4/30/2021 11:32 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

540'
MERGING
TAPER

SPEED
LIMIT
40
R2-1
24"X30"

COVER

T4Y

MH

MH

INL

STH 100

528+00

529+00

530+00

531+00

532+00

533+00

R/L STH 100

STH 100

STH 100 (W. BROWN DEER ROAD)

INL

INL

INL

END
ROAD WORK
G20-2A
48"X24"

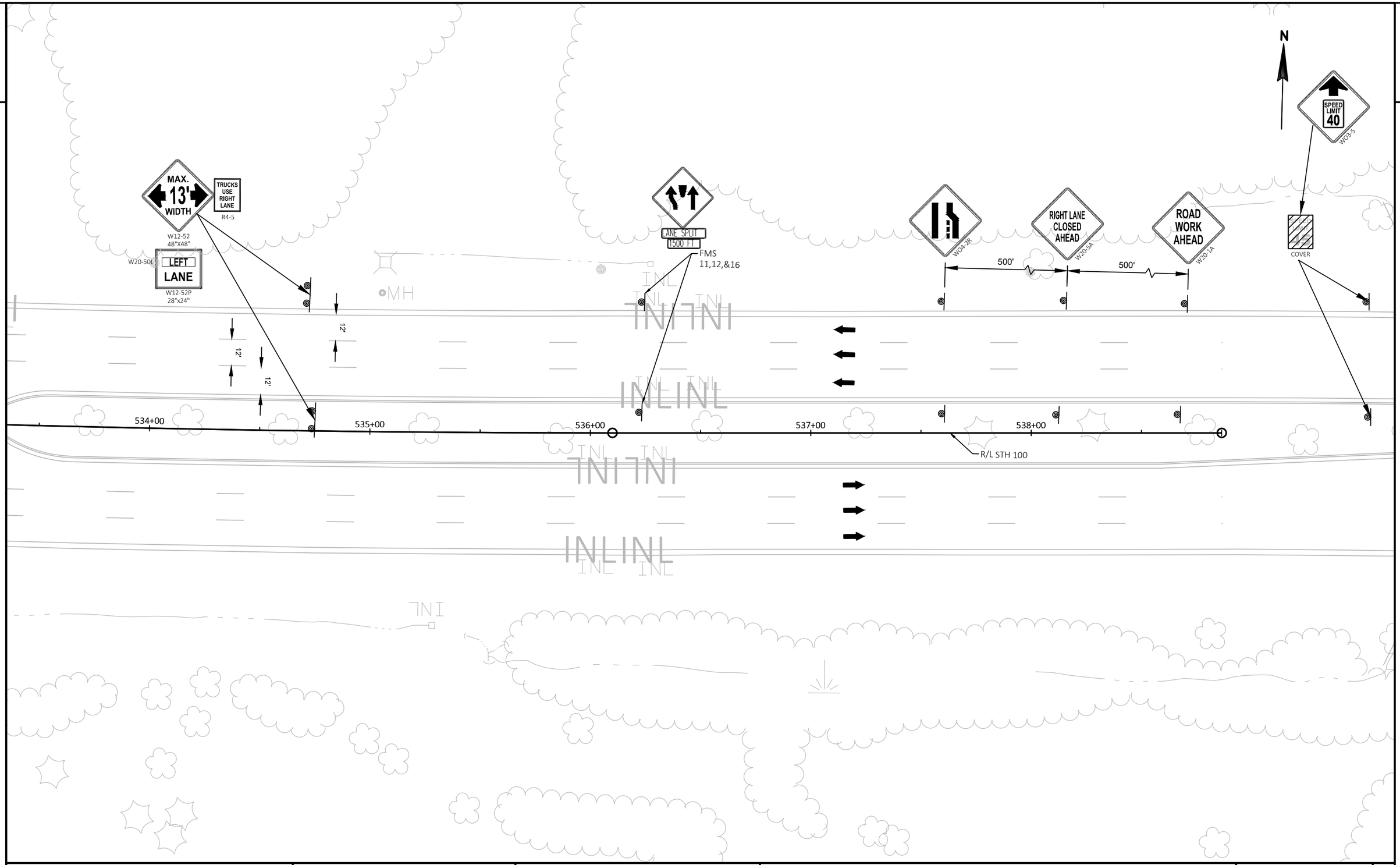
PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 4B	SHEET 615	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026304_S4B.DWG
LAYOUT NAME - 026359

PLOT DATE : 4/30/2021 11:33 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



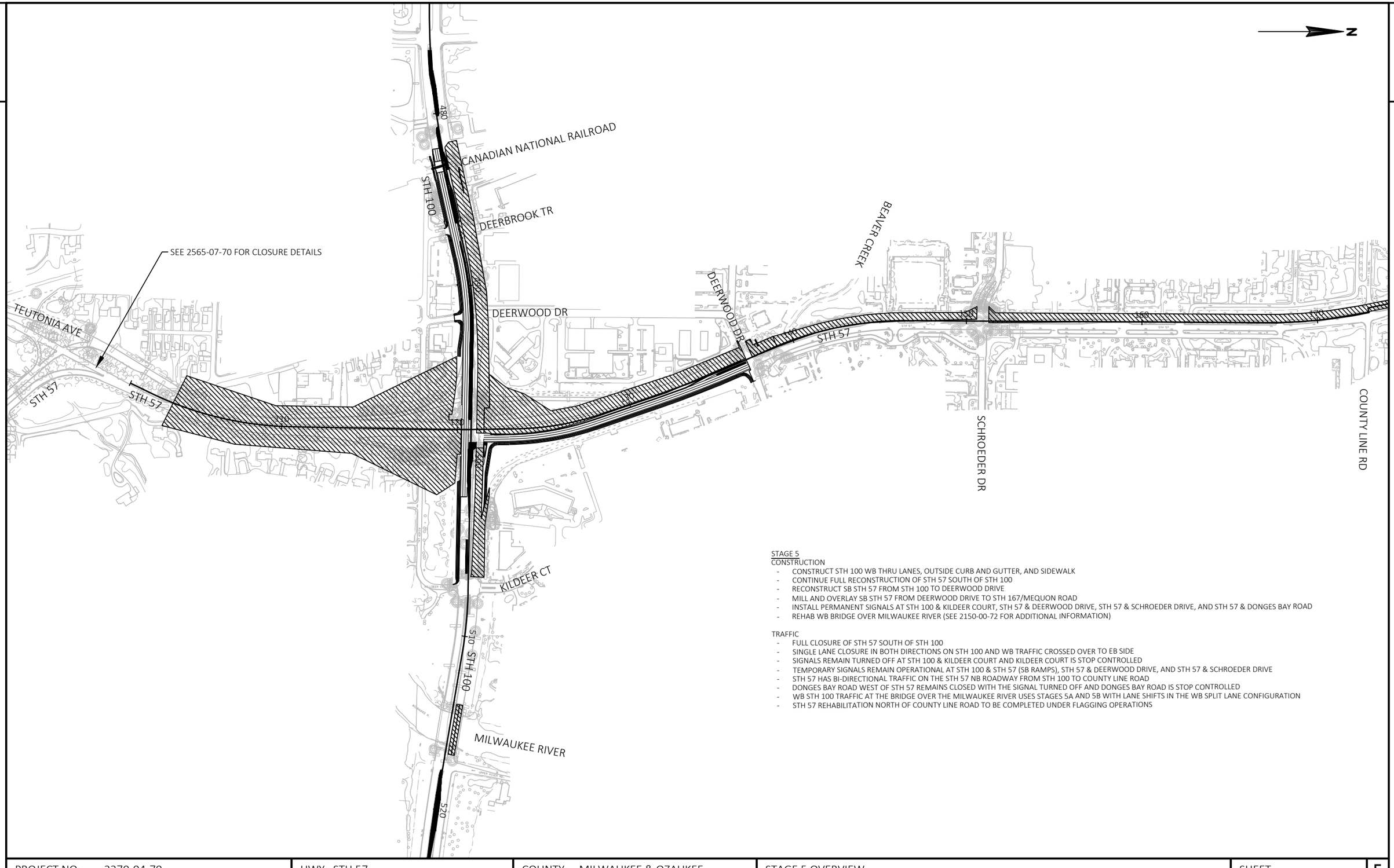
PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 4B	SHEET 616	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026304_S4B.DWG
LAYOUT NAME - 026360

PLOT DATE : 4/30/2021 11:35 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N



STAGE 5
CONSTRUCTION
- CONSTRUCT STH 100 WB THRU LANES, OUTSIDE CURB AND GUTTER, AND SIDEWALK
- CONTINUE FULL RECONSTRUCTION OF STH 57 SOUTH OF STH 100
- RECONSTRUCT SB STH 57 FROM STH 100 TO DEERWOOD DRIVE
- MILL AND OVERLAY SB STH 57 FROM DEERWOOD DRIVE TO STH 167/MEQUON ROAD
- INSTALL PERMANENT SIGNALS AT STH 100 & KILDEER COURT, STH 57 & DEERWOOD DRIVE, STH 57 & SCHROEDER DRIVE, AND STH 57 & DONGES BAY ROAD
- REHAB WB BRIDGE OVER MILWAUKEE RIVER (SEE 2150-00-72 FOR ADDITIONAL INFORMATION)

TRAFFIC
- FULL CLOSURE OF STH 57 SOUTH OF STH 100
- SINGLE LANE CLOSURE IN BOTH DIRECTIONS ON STH 100 AND WB TRAFFIC CROSSED OVER TO EB SIDE
- SIGNALS REMAIN TURNED OFF AT STH 100 & KILDEER COURT AND KILDEER COURT IS STOP CONTROLLED
- TEMPORARY SIGNALS REMAIN OPERATIONAL AT STH 100 & STH 57 (SB RAMPS), STH 57 & DEERWOOD DRIVE, AND STH 57 & SCHROEDER DRIVE
- STH 57 HAS BI-DIRECTIONAL TRAFFIC ON THE STH 57 NB ROADWAY FROM STH 100 TO COUNTY LINE ROAD
- DONGES BAY ROAD WEST OF STH 57 REMAINS CLOSED WITH THE SIGNAL TURNED OFF AND DONGES BAY ROAD IS STOP CONTROLLED
- WB STH 100 TRAFFIC AT THE BRIDGE OVER THE MILWAUKEE RIVER USES STAGES 5A AND 5B WITH LANE SHIFTS IN THE WB SPLIT LANE CONFIGURATION
- STH 57 REHABILITATION NORTH OF COUNTY LINE ROAD TO BE COMPLETED UNDER FLAGGING OPERATIONS

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	STAGE 5 OVERVIEW	SHEET 617	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026400_5SO.DWG
LAYOUT NAME - 026401
PLOT DATE : 4/23/2021 9:30 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:500 FT

2

STH 100 (W. BROWN DEER ROAD)

R/L STH 100

49+00

49+50

50+00

121+00

122+00

123+00

124+00

125+00

126+00

TSL

R/L STH 57

STH 57 (N. GREEN BAY ROAD)

12'

11'

16'

50'

N

M3-2
24"X12"

EAST

WEST

M3-4
24"X12"

M1-6
24"X24"

100

100

M1-6
24"X24"

M6-1
21"X21"

M6-1
21"X21"

ONLY

R3-8AA
42"X30"

M3-2
24"X12"

EAST

WEST

M3-4
24"X12"

M1-6
24"X24"

100

100

M1-6
24"X24"

M5-1
21"X21"

M5-1R
21"X21"

R11-2L
48" X 30"

LANE
CLOSED

TYPE III BARRICADE

W06-3

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 5	SHEET 618	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026401_S5.DWG
LAYOUT NAME - 026410

PLOT DATE : 4/23/2021 10:07 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

JCT
100

M2-1
21"X15"

M1-6
24"X24"

W3-3
36"X36"

127+00

128+00

129+00

130+00

131+00

132+00

R/L STH 57

STH 57 (N. GREEN BAY ROAD)

12'

11'

16'

W3-3
36"X36"

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 5	SHEET 619	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026401_S5.DWG
LAYOUT NAME - 026411

PLOT DATE : 4/23/2021 10:07 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

CLOSE RIGHT LANE WHILE WORK IS BEING COMPLETED ALONG DEERWOOD DRIVE.
ALL MOVEMENTS TO USE LEFT LANE UNDER CLOSURE.

ROAD WORK AHEAD
W20-1A

END ROAD WORK
G20-2A
48"X24"

350'

TEMPORARY PEDESTRIAN SURFACE PLATE

TEMPORARY PEDESTRIAN CURB RAMP

W06-3

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

NO TURN ON RED
R10-11B
24"X24"

ONLY
R3-8A
36"X30"

132+00
133+00
134+00
135+00
136+00
137+00
138+00

R/L STH 57

50'

STH 57 (N. GREEN BAY ROAD)

BEGIN LEFT TURN LANE
R3-20L
24"X36"

ONLY
R3-8A
36"X30"

SIDEWALK CLOSED
R9-9
24"X12"

WO6-4
12"X18"

WO1-6
48" X 24"
TYPE III BARRICADE

N. DEERWOOD DRIVE

350'

END ROAD WORK
G20-2A
48"X24"

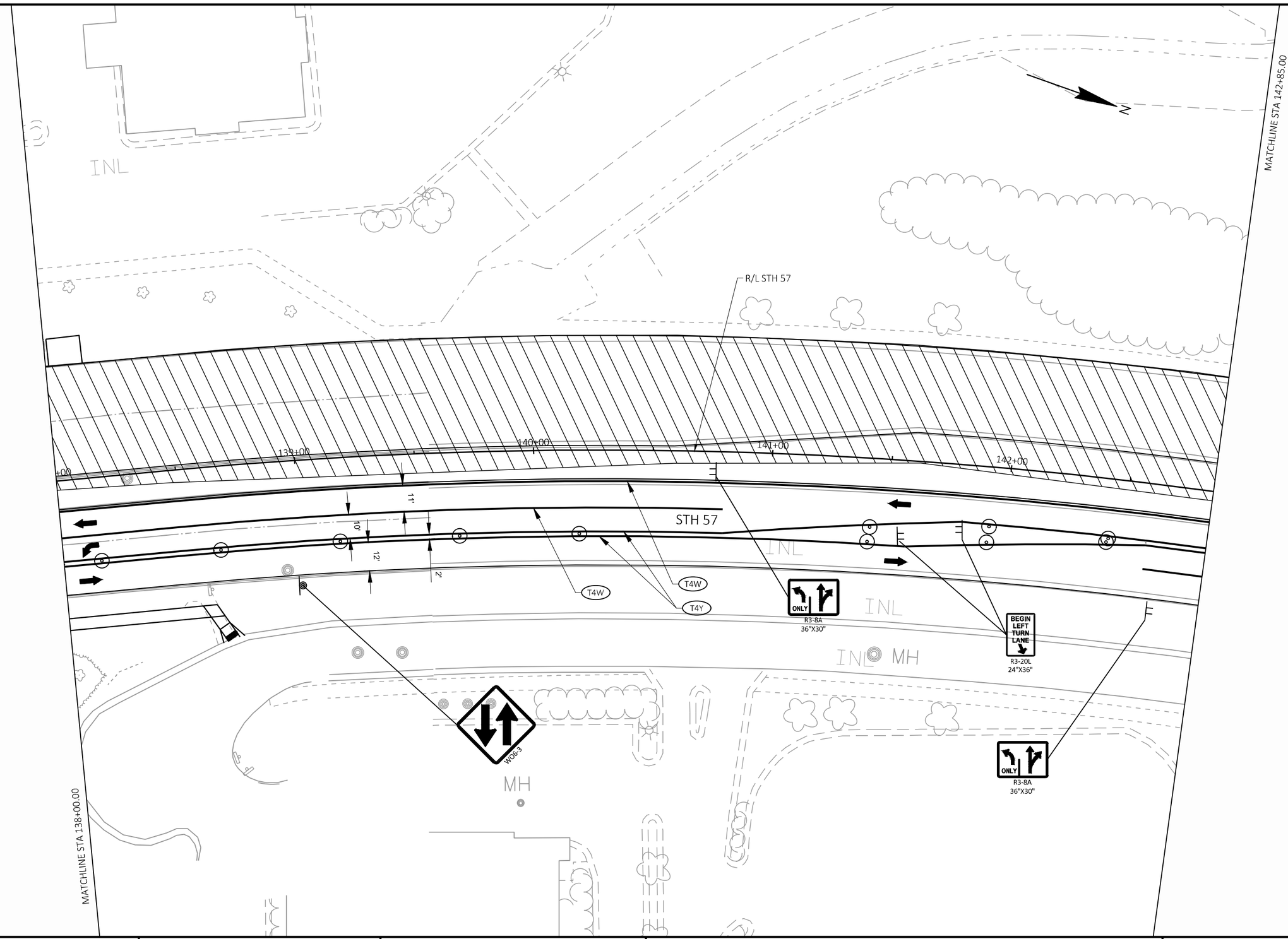
ROAD WORK AHEAD
W20-1A

NOTE: PAVEMENT REHABILITATION AND LOOP DETECTOR REPLACEMENT WORK WITHIN THE INTERSECTION TO BE COMPLETED UNDER NIGHT-TIME FULL CLOSURE OF THE WEST INTERSECTION APPROACH.

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 5	SHEET 620	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026401_S5.DWG
LAYOUT NAME - 026412
PLOT DATE : 4/23/2021 10:08 AM
PLOT BY : TONY BUBLITZ
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 5	SHEET 621	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026302_S5.DWG
LAYOUT NAME - 026514
PLOT DATE : 3/25/2021 8:16 AM
PLOT BY : NICHOLAS BOBINSKI, PE
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

N

MATCHLINE STA 148+15.00

R/L STH 57

R3-8A
36"X30"

BEGIN LEFT TURN LANE
R3-20L
24"X36"

143+00
144+00
145+00
146+00
147+00
148+00

STH 57

11'
10'
2'
12'

T4W
T4Y

W6-4
48"X36"

W06-3

MATCHLINE STA 142+85.00

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 5	SHEET 622 E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026302_S5.DWG
LAYOUT NAME - 026515

PLOT DATE : 3/25/2021 8:16 AM PLOT BY : NICHOLAS BOBINSKI, PE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

ROAD WORK AHEAD
W20-1A
200'
200'

SCHROEDER DR

END ROAD WORK
G20-2A
48"X24"

N

MATCHLINE STA 153+45.00

TEMPORARY PEDESTRIAN CURB RAMP AND TEMPORARY PEDESTRIAN SURFACE PLATE

TEMPORARY PEDESTRIAN CURB RAMP AND TEMPORARY PEDESTRIAN SURFACE PLATE

PEDESTRIAN BARRICADE (TYP)

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

W06-3

STOP HERE ON RED
R10-6
24"X36"

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

R/L STH 57

149+00 150+00 151+00 152+00 153+00

T4W

STH 57

11' 10' 12' 2'

TSL

T4Y T4W

BEGIN LEFT TURN LANE
R3-20L
24"X36"

ONLY
R3-8A
36"X30"

W6-4
48"X36"

W6-4
48"X36"

T4W T4W T4Y

W06-3

PAVEMENT REHABILITATION AND LOOP DETECTOR REPLACEMENT WORK WITHIN THE INTERSECTION TO BE COMPLETED UNDER NIGHT-TIME FULL CLOSURE OF THE WEST INTERSECTION APPROACH.

SIGN

SIGN

MATCHLINE STA 148+15.00

END ROAD WORK
G20-2A
48"X24"

ROAD WORK AHEAD
W20-1A

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 5	SHEET 623	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026302_S5.DWG
LAYOUT NAME - 026516

PLOT DATE : 3/25/2021 8:17 AM PLOT BY : NICHOLAS BOBINSKI, PE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

W1-6
48"X24"
TYPE III BARRICADE

R3-8A
36"X30"
ONLY

W06-3

R/L STH 57

STOP
R1-1
36"X36"

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

MATCHLINE STA 158+75.00

154+00 155+00 156+00 157+00 158+00

STH 57

11'
10'
12'
2'

T4Y
T4W
TSL

RIGHT TURN ONLY
R3-53R
24"X30"

R3-8A
36"X30"
ONLY

R11-2L
48"X30"
LANE CLOSED
TYPE III BARRICADE

W6-4
48"X36"

BEGIN LEFT TURN LANE
R3-20L
24"X36"

MATCHLINE STA 153+45.00

INL MH SIGN

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 5	SHEET 624 E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026302_S5.DWG
LAYOUT NAME - 026517

PLOT DATE : 3/25/2021 8:17 AM PLOT BY : NICHOLAS BOBINSKI, PE PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

DEER RUN DR

MATCHLINE STA 164+05.00

MATCHLINE STA 158+75.00

N

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

BEGIN LEFT TURN LANE
R3-20L
24"X36"

R/L STH 57

159+00 160+00 161+00 162+00 163+00 164+00

STH 57

11' 10' 12' 2' 11' 12'

T4W T4W T4Y

W6-4
48"X36"

W6B-3

R3-8A
36"X30"

RIGHT TURN ONLY
R3-53R
24"X30"

SIGN

MH INL

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 5	SHEET 625	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026302_S5.DWG
LAYOUT NAME - 026518

PLOT DATE : 3/25/2021 8:17 AM PLOT BY : NICHOLAS BOBINSKI, PE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

MATCHLINE STA 0+00.00

N

MH

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

R/L STH 57

INL

165+00

166+00

167+00

168+00

169+00

11'

12'

12'

STH 57

T4Y

T4WY

RIGHT TURN ONLY
R3-53R
24"X30"

BEGIN LEFT TURN LANE
R3-20L
24"X36"

MATCHLINE STA 164+05.00

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 5	SHEET 626	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026302_S5.DWG
LAYOUT NAME - 026519

PLOT DATE : 3/25/2021 8:18 AM PLOT BY : NICHOLAS BOBINSKI, PE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

ROAD WORK AHEAD
W20-1A

COUNTY LINE RD

N

END ROAD WORK
G20-2A
48"X24"

MATCHLINE STA 174+65.00

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

W06-3

R/L STH 57

STOP
R1-1
36"X36"

CONSTRUCT COUNTY LINE RD UNDER FLAGGING OPERATIONS.
SEE SDD "TRAFFIC CONTROL FOR LANE CLOSURE
WITH FLAGGING OPERATIONS".

MH
SIGN
INL

170+00
171+00
172+00
173+00
174+00

STH 57

2'
11'
10'
12'

T4Y
T4W

R3-8A
36"X30"
ONLY

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

W6-4
48"X36"

END ROAD WORK
G20-2A
48"X24"

ROAD WORK AHEAD
W20-1A

MATCHLINE STA 0+00.00

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 5	SHEET 627	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026302_S5.DWG
LAYOUT NAME - 026520

PLOT DATE : 3/25/2021 8:18 AM PLOT BY : NICHOLAS BOBINSKI, PE PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

MATCHLINE STA 179+95.00

HIAWATHA DR

MH

N

W1-6
48"X24"

TYPE III BARRICADE

R/L STH 57

ONLY
R3-8A
36"X30"

175+00 176+00 177+00 178+00 179+00

CEDARBURG RD

T4Y

SIGN SIGN

T4W

T4W

W0C3

STA 177+00 TO STA 282+00
RESURFACING WORK TO BE COMPLETED UNDER FLAGGING OPERATIONS.
SEE SDD "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATIONS"
TRAFFIC CONTROL CONFIGURATION SHOWN ON THIS SHEET ARE
WHEN FLAGGING OPERATIONS ARE NOT IN EFFECT

MATCHLINE STA 174+65.00

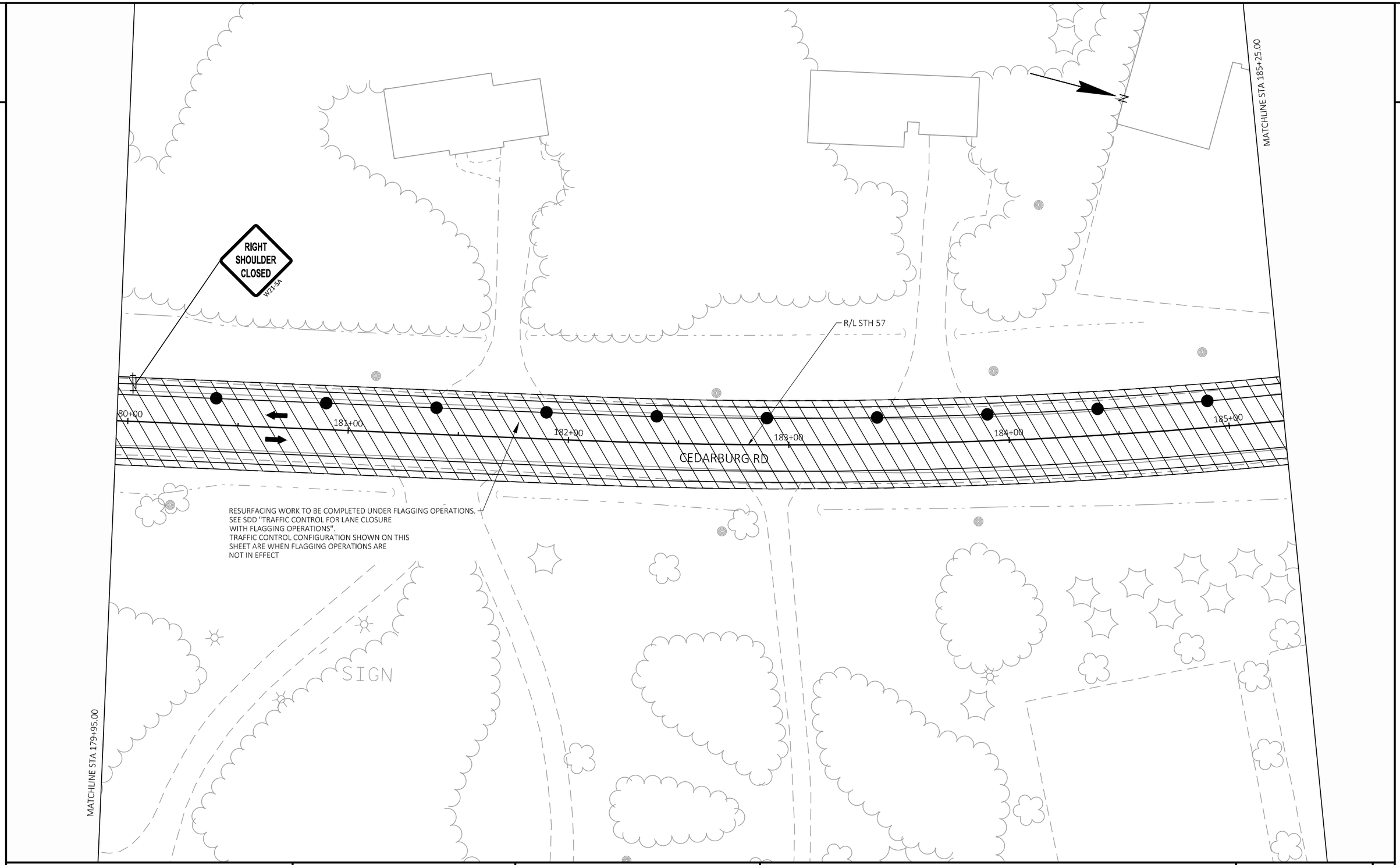
PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 5	SHEET 628	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026302_S5.DWG
LAYOUT NAME - 026521

PLOT DATE : 3/25/2021 8:18 AM PLOT BY : NICHOLAS BOBINSKI, PE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 5	SHEET 629	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026302_S5.DWG
LAYOUT NAME - 026522
PLOT DATE : 3/25/2021 8:19 AM PLOT BY : NICHOLAS BOBINSKI, PE PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

INL

SIGN

MH

MH

SIGN

SIGN

N

MATCHLINE STA 190+55.00

MATCHLINE STA 185+25.00

RIGHT SHOULDER CLOSED

W21-5A

R/L STH 57

186+00

187+00

188+00

189+00

190+00

CEDARBURG RD

RESURFACING WORK TO BE COMPLETED UNDER FLAGGING OPERATIONS.
SEE SDD "TRAFFIC CONTROL FOR LANE CLOSURE
WITH FLAGGING OPERATIONS".
TRAFFIC CONTROL CONFIGURATION SHOWN ON THIS
SHEET ARE WHEN FLAGGING OPERATIONS ARE
NOT IN EFFECT

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 5	SHEET 630	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026302_S5.DWG
LAYOUT NAME - 026523

PLOT DATE : 3/25/2021 8:19 AM PLOT BY : NICHOLAS BOBINSKI, PE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

WILLOW RD

N

MATCHLINE STA 195+85.00

R/L STH 57

191+00

192+00

193+00

194+00

195+00

CEDARBURG RD

RESURFACING WORK TO BE COMPLETED UNDER FLAGGING OPERATIONS.
SEE SDD "TRAFFIC CONTROL FOR LANE CLOSURE
WITH FLAGGING OPERATIONS".
TRAFFIC CONTROL CONFIGURATION SHOWN ON THIS
SHEET ARE WHEN FLAGGING OPERATIONS ARE
NOT IN EFFECT

SIGN

MATCHLINE STA 190+55.00

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 5	SHEET 631	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026302_S5.DWG
LAYOUT NAME - 026524

PLOT DATE : 3/25/2021 8:19 AM PLOT BY : NICHOLAS BOBINSKI, PE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

ELMDALE RD

N

RIGHT SHOULDER CLOSED
W21-5A

R/L STH 57

SIGN SIGN SIGN

MH

196+00 197+00 198+00 199+00 200+00 201+00

CEDARBURG RD

RESURFACING WORK TO BE COMPLETED UNDER FLAGGING OPERATIONS.
SEE SDD "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATIONS".
TRAFFIC CONTROL CONFIGURATION SHOWN ON THIS SHEET ARE WHEN FLAGGING OPERATIONS ARE NOT IN EFFECT

MATCHLINE STA 195+85.00

MATCHLINE STA 201+15.00

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 5	SHEET 632	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026302_S5.DWG
LAYOUT NAME - 026525

PLOT DATE : 3/25/2021 8:20 AM PLOT BY : NICHOLAS BOBINSKI, PE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

MATCHLINE STA 206+45.00

R/L STH 57

202+00

203+00

204+00

205+00

206+00

CEDARBURG RD

RESURFACING WORK TO BE COMPLETED UNDER FLAGGING OPERATIONS.
SEE SDD "TRAFFIC CONTROL FOR LANE CLOSURE
WITH FLAGGING OPERATIONS".
TRAFFIC CONTROL CONFIGURATION SHOWN ON THIS
SHEET ARE WHEN FLAGGING OPERATIONS ARE
NOT IN EFFECT

MATCHLINE STA 201+15.00

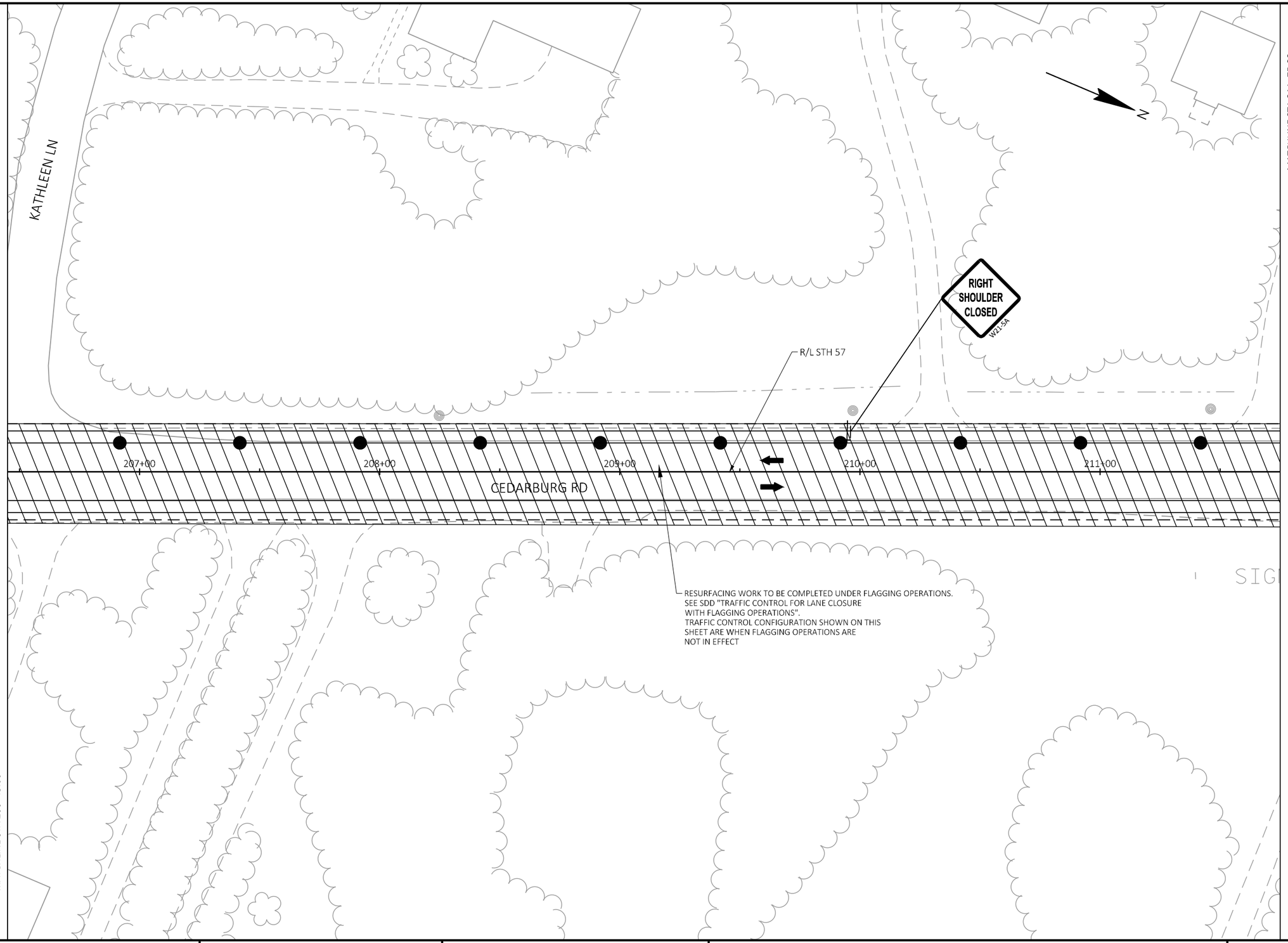
PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 5	SHEET 633	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026302_S5.DWG
LAYOUT NAME - 026526

PLOT DATE : 3/25/2021 8:20 AM PLOT BY : NICHOLAS BOBINSKI, PE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



2

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 5	SHEET 634	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026302_S5.DWG
LAYOUT NAME - 026527
PLOT DATE : 3/25/2021 8:20 AM
PLOT BY : NICHOLAS BOBINSKI, PE
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

WESTFIELD RD

MATCHLINE STA 217+05.00

N

R/L STH 57

212+00

213+00

214+00

215+00

216+00

217+0

CEDARBURG RD

RESURFACING WORK TO BE COMPLETED UNDER FLAGGING OPERATIONS.
SEE SDD "TRAFFIC CONTROL FOR LANE CLOSURE
WITH FLAGGING OPERATIONS".
TRAFFIC CONTROL CONFIGURATION SHOWN ON THIS
SHEET ARE WHEN FLAGGING OPERATIONS ARE
NOT IN EFFECT

MATCHLINE STA 211+75.00

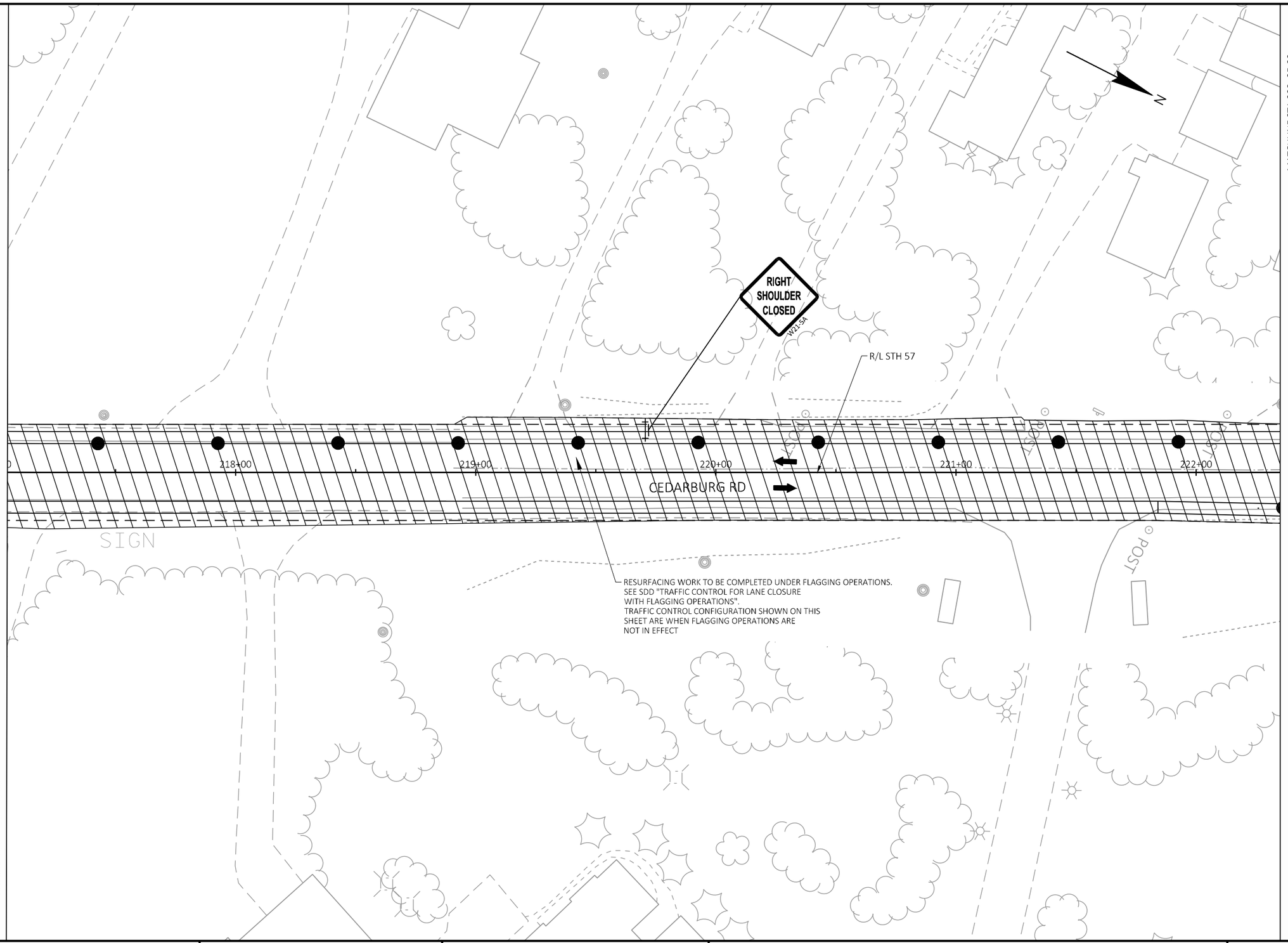
PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 5	SHEET 635	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026302_S5.DWG
LAYOUT NAME - 026528

PLOT DATE : 3/25/2021 8:21 AM PLOT BY : NICHOLAS BOBINSKI, PE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



2

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 5	SHEET 636	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026302_S5.DWG
LAYOUT NAME - 026529

PLOT DATE : 3/25/2021 8:21 AM PLOT BY : NICHOLAS BOBINSKI, PE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

RESURFACING WORK TO BE COMPLETED UNDER FLAGGING OPERATIONS.
SEE SDD "TRAFFIC CONTROL FOR LANE CLOSURE
WITH FLAGGING OPERATIONS".
TRAFFIC CONTROL CONFIGURATION SHOWN ON THIS
SHEET ARE WHEN FLAGGING OPERATIONS ARE
NOT IN EFFECT

R/L STH 57

MATCHLINE STA 227+65.00

223+00

224+00

225+00

226+00

227+00

CEDARBURG RD

RIGHT SHOULDER CLOSED

W21-5A

MATCHLINE STA 222+35.00

MH

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 5	SHEET 637	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026302_S5.DWG
LAYOUT NAME - 026530

PLOT DATE : 3/25/2021 8:22 AM PLOT BY : NICHOLAS BOBINSKI, PE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

RESURFACING WORK TO BE COMPLETED UNDER FLAGGING OPERATIONS.
SEE SDD "TRAFFIC CONTROL FOR LANE CLOSURE
WITH FLAGGING OPERATIONS".
TRAFFIC CONTROL CONFIGURATION SHOWN ON THIS
SHEET ARE WHEN FLAGGING OPERATIONS ARE
NOT IN EFFECT

RIGHT SHOULDER CLOSED
W21-5A

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

R/L STH 57

MATCHLINE STA 232+95.00

228+00
229+00
230+00
231+00
232+00

CEDARBURG RD

TSL

RIGHT SHOULDER CLOSED
W21-5A

SIGN

FILLER CAPS

R11-2 (MOD)
48" X 30"
LOCAL TRAFFIC ONLY
TYPE III BARRICADE

DONGES BAY RD

STOP
R1-1
36"X36"

RIGHT SHOULDER CLOSED
W21-5A

MATCHLINE STA 227+65.00

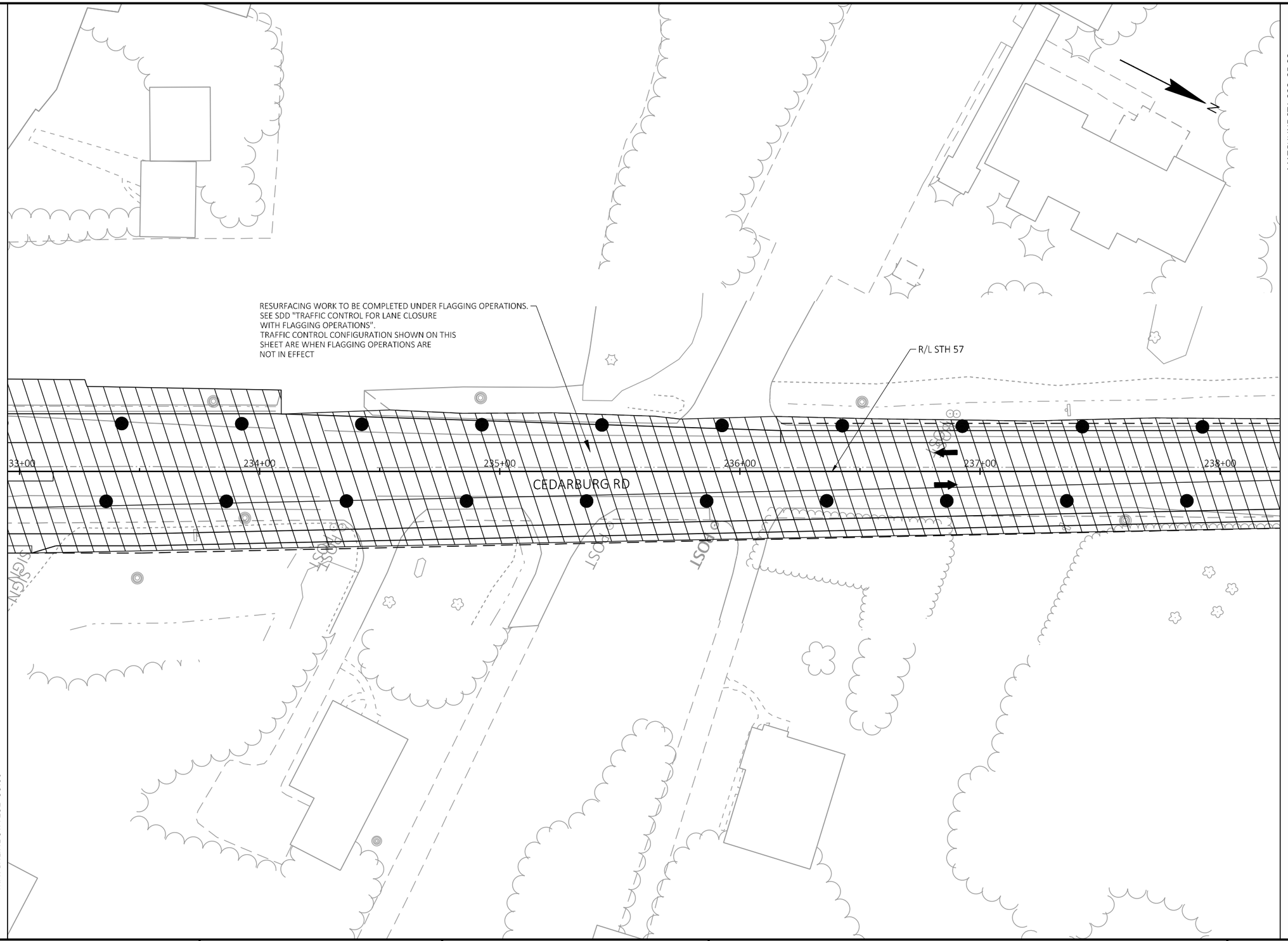
PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 5	SHEET 638	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026302_S5.DWG
LAYOUT NAME - 026531

PLOT DATE : 3/25/2021 8:22 AM PLOT BY : NICHOLAS BOBINSKI, PE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



2

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 5	SHEET 639	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026302_S5.DWG
LAYOUT NAME - 026532

PLOT DATE : 3/25/2021 8:22 AM PLOT BY : NICHOLAS BOBINSKI, PE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

BAYBERRY PKWY

SIGN

MATCHLINE STA 243+55.00

RIGHT SHOULDER CLOSED
W21-5A

RESURFACING WORK TO BE COMPLETED UNDER FLAGGING OPERATIONS.
SEE SDD "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATIONS".
TRAFFIC CONTROL CONFIGURATION SHOWN ON THIS SHEET ARE WHEN FLAGGING OPERATIONS ARE NOT IN EFFECT

239+00 240+00 241+00 242+00 243+00

CEDARBURG RD

POST

R/L STH 57

MATCHLINE STA 238+25.00

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 5	SHEET 640	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026302_S5.DWG
LAYOUT NAME - 026533
PLOT DATE : 3/25/2021 8:23 AM PLOT BY : NICHOLAS BOBINSKI, PE PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

N

MATCHLINE STA 248+85.00

RESURFACING WORK TO BE COMPLETED UNDER FLAGGING OPERATIONS.
SEE SDD "TRAFFIC CONTROL FOR LANE CLOSURE
WITH FLAGGING OPERATIONS".
TRAFFIC CONTROL CONFIGURATION SHOWN ON THIS
SHEET ARE WHEN FLAGGING OPERATIONS ARE
NOT IN EFFECT

244+00

245+00

246+00

247+00

248+00

CEDARBURG RD

R/L STH 57

MATCHLINE STA 243+55.00

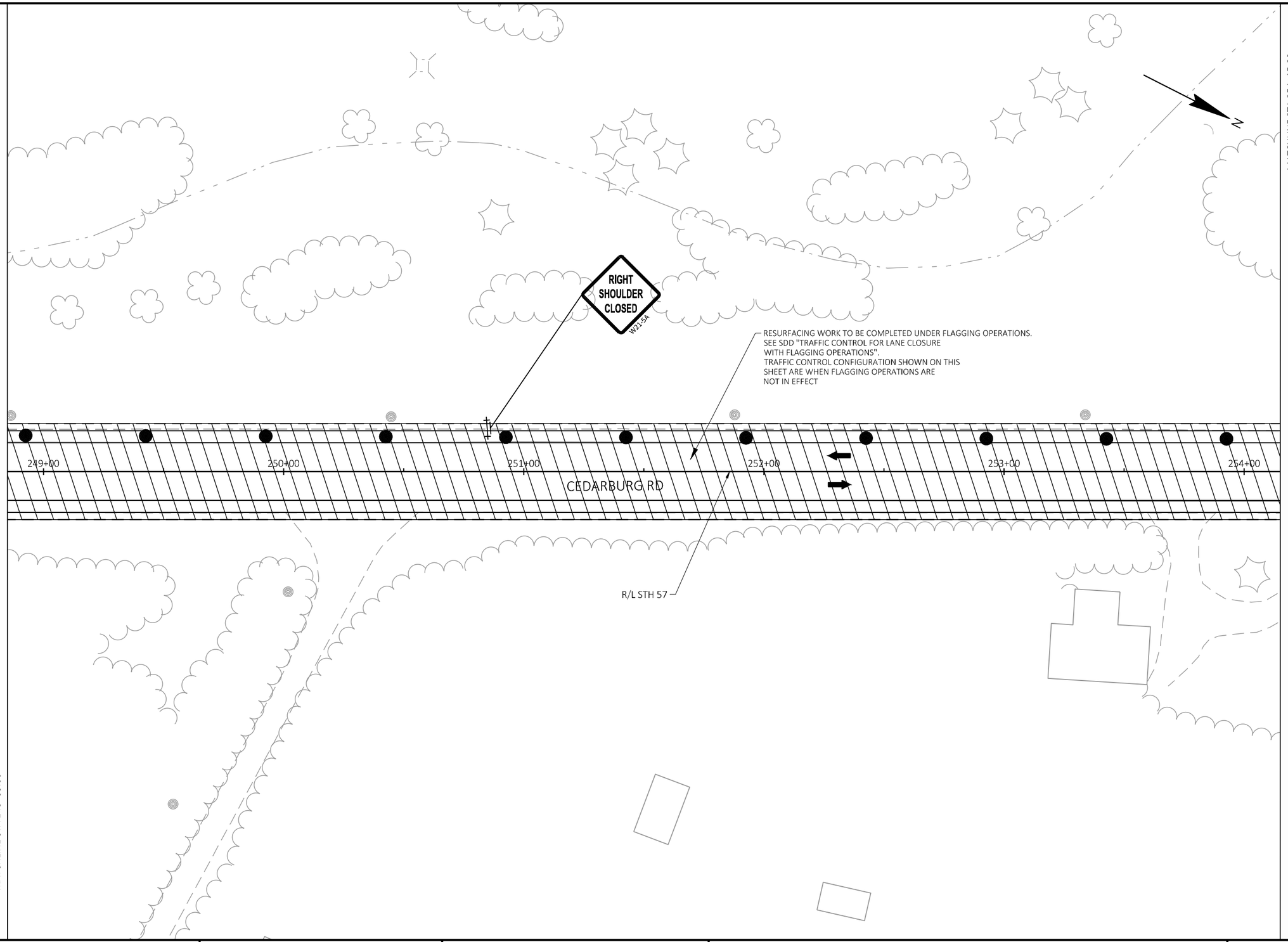
PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 5	SHEET 641	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026302_S5.DWG
LAYOUT NAME - 026534

PLOT DATE : 3/25/2021 8:23 AM PLOT BY : NICHOLAS BOBINSKI, PE PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2



PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 5	SHEET 642	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026302_S5.DWG
LAYOUT NAME - 026535
PLOT DATE : 3/25/2021 8:23 AM
PLOT BY : NICHOLAS BOBINSKI, PE
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

MATCHLINE STA 259+45.00

RESURFACING WORK TO BE COMPLETED UNDER FLAGGING OPERATIONS.
SEE SDD "TRAFFIC CONTROL FOR LANE CLOSURE
WITH FLAGGING OPERATIONS".
TRAFFIC CONTROL CONFIGURATION SHOWN ON THIS
SHEET ARE WHEN FLAGGING OPERATIONS ARE
NOT IN EFFECT

R/L STH 57

255+00

256+00

257+00

258+00

269+00

CEDARBURG RD

W

MATCHLINE STA 254+15.00

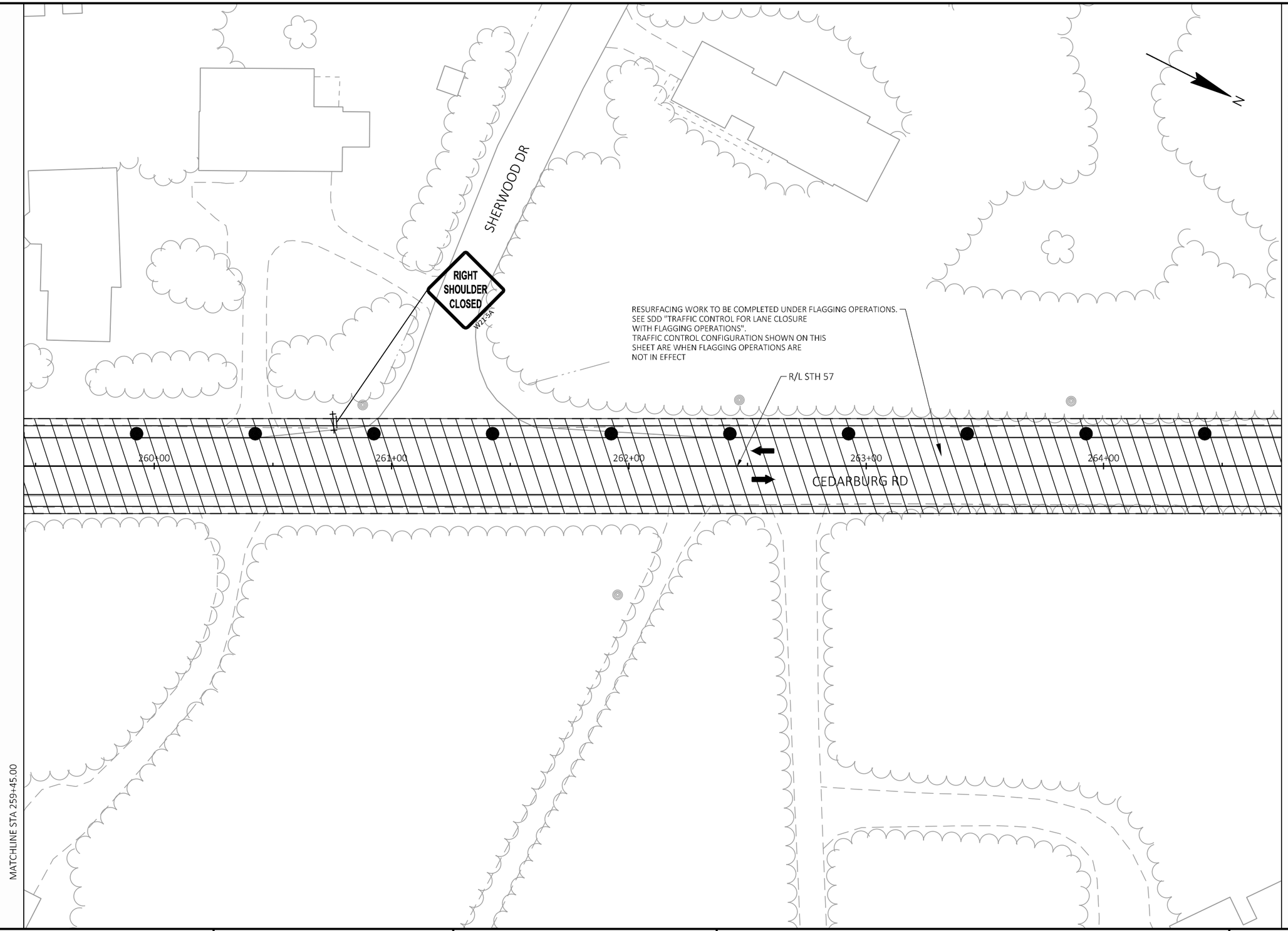
PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 5	SHEET 643	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026302_S5.DWG
LAYOUT NAME - 026536

PLOT DATE : 3/25/2021 8:24 AM PLOT BY : NICHOLAS BOBINSKI, PE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



2

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 5	SHEET 644	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026302_S5.DWG
LAYOUT NAME - 026537
PLOT DATE : 3/25/2021 8:24 AM
PLOT BY : NICHOLAS BOBINSKI, PE
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

MATCHLINE STA 270+05.00

MATCHLINE STA 264+75.00

N

W

W

MH

R/L STH 57

265+00

266+00

267+00

268+00

269+00

270+0

CEDARBURG RD

RESURFACING WORK TO BE COMPLETED UNDER FLAGGING OPERATIONS.
SEE SDD "TRAFFIC CONTROL FOR LANE CLOSURE
WITH FLAGGING OPERATIONS".
TRAFFIC CONTROL CONFIGURATION SHOWN ON THIS
SHEET ARE WHEN FLAGGING OPERATIONS ARE
NOT IN EFFECT

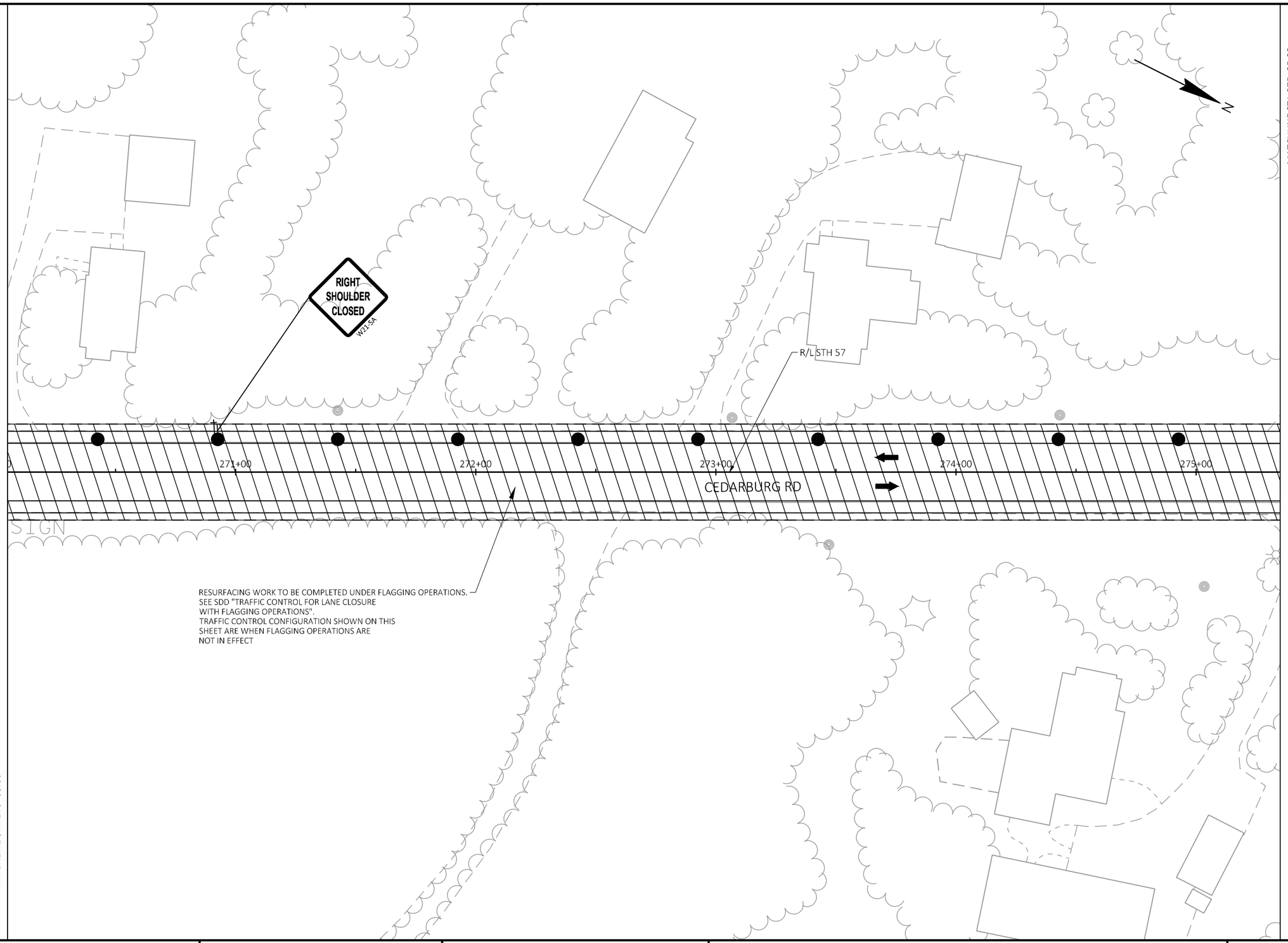
PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 5	SHEET 645	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026302_S5.DWG
LAYOUT NAME - 026538

PLOT DATE : 3/25/2021 8:24 AM PLOT BY : NICHOLAS BOBINSKI, PE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

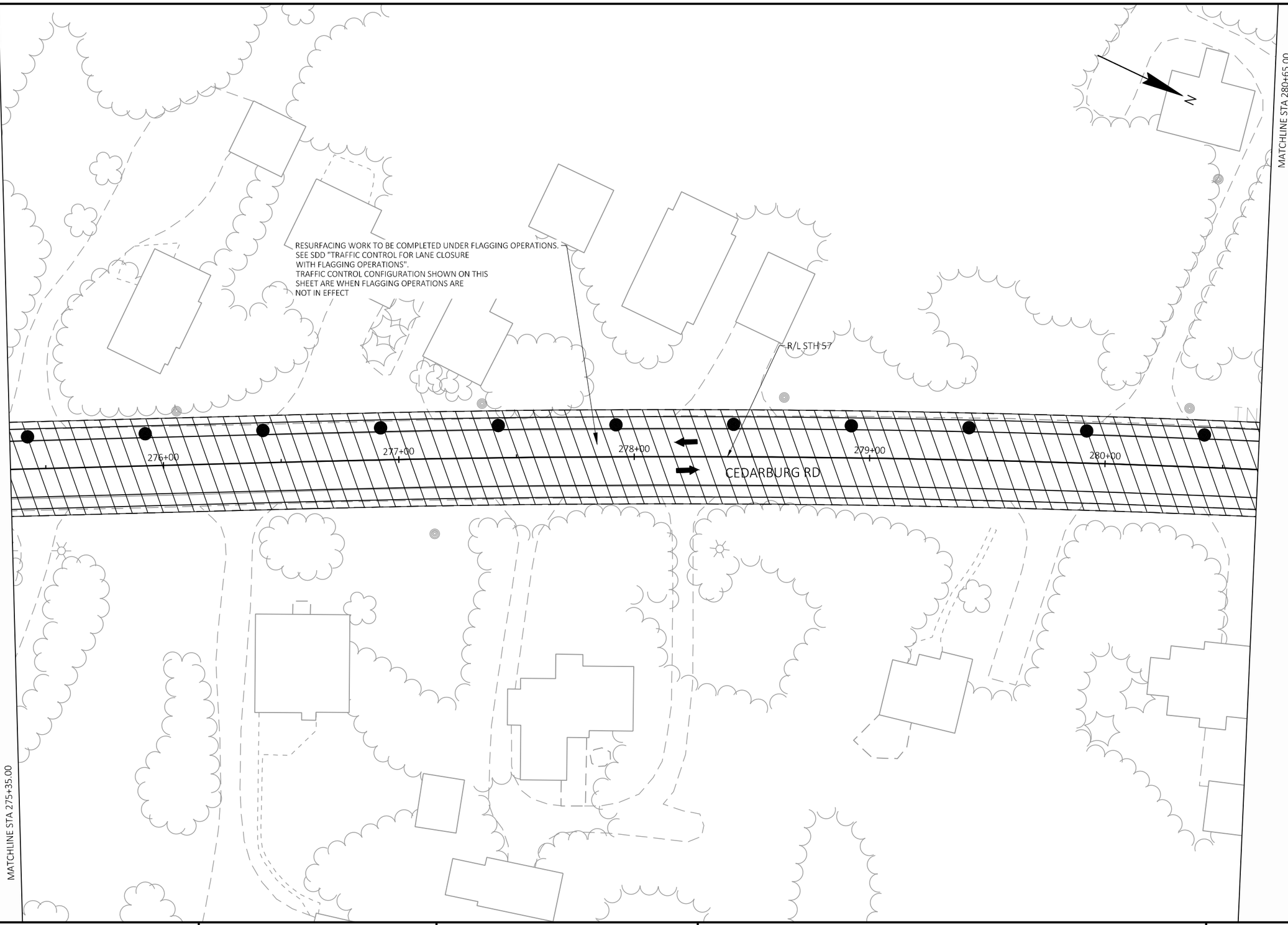
2



PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 5	SHEET 646	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026302_S5.DWG
LAYOUT NAME - 026539
PLOT DATE : 3/25/2021 8:25 AM
PLOT BY : NICHOLAS BOBINSKI, PE
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

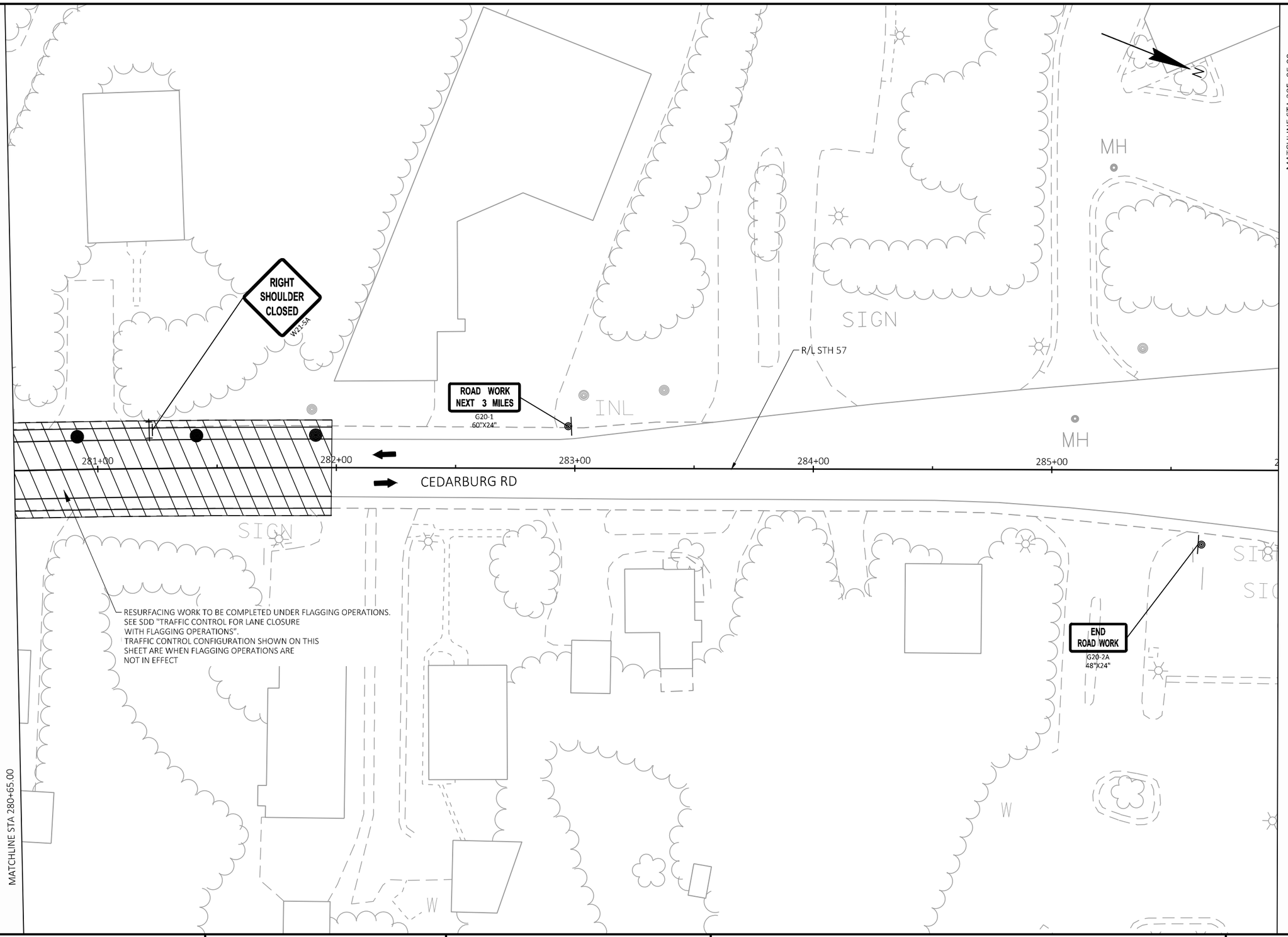


PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 5	SHEET 647	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026302_S5.DWG
LAYOUT NAME - 026540

PLOT DATE : 3/25/2021 8:25 AM PLOT BY : NICHOLAS BOBINSKI, PE PLOT NAME : PLOT SCALE : 1 IN:40 FT

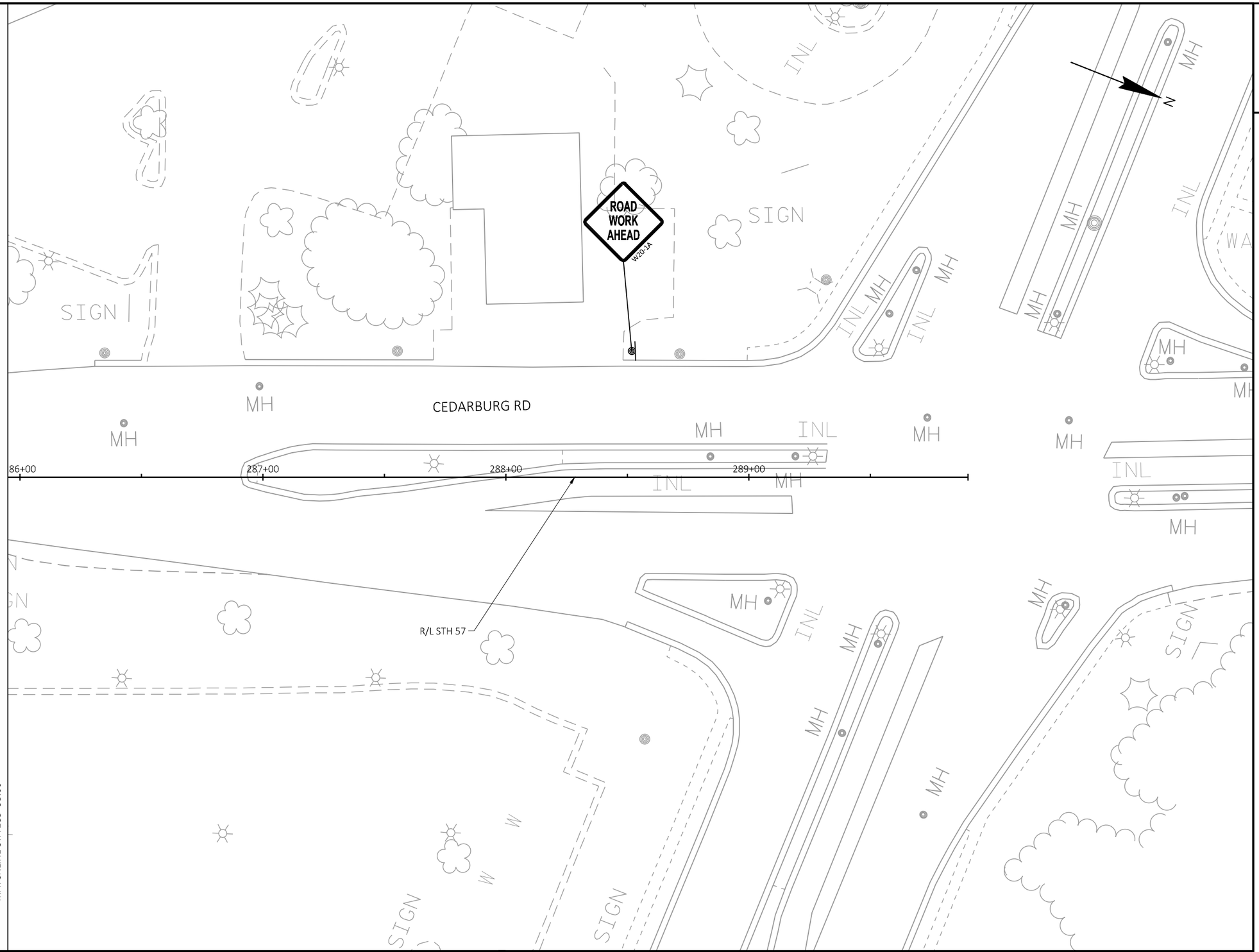
2



PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 5	SHEET 648	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026302_S5.DWG
LAYOUT NAME - 026541
PLOT DATE : 3/25/2021 8:26 AM
PLOT BY : NICHOLAS BOBINSKI, PE
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 5	SHEET 649	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\026302_S5.DWG
LAYOUT NAME - 026542

PLOT DATE : 3/25/2021 8:26 AM PLOT BY : NICHOLAS BOBINSKI, PE PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

ROAD WORK AHEAD
W20-1A

END ROAD WORK
G20-2A
48"X24"

350'

N 51ST ST

S

S

W

464+00 465+00 466+00 467+00 468+00 469+00 470+00

R/L STH 100

STH 100 (W. BROWN DEER ROAD)

320'
MERGING
TAPER

350' 350' 350'

SIGN

ROAD WORK AHEAD
W20-1A

350'

LEFT LANE CLOSED AHEAD
W20-5SA

W04-2L

END ROAD WORK
G20-2A
48"X24"

ROAD WORK AHEAD
W20-1A

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 5	SHEET 650	E

2

2

N

ROAD WORK AHEAD
W20-1A

350'

N ARBON DR

END ROAD WORK
G20-2A
48"X24"

470+00 471+00 472+00 473+00 474+00 475+00

R/L STH 100

STH 100 (W. BROWN DEER ROAD)

320' MERGING TAPER

W01-6
48" X 24"
TYPE III BARRICADE

BEGIN LEFT TURN LANE
R3-20L
24"X36"

SPEED LIMIT 40
R2-1
24"X30"

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

END ROAD WORK
G20-2A
48"X24"

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 5	SHEET 651	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026402_S5.DWG
LAYOUT NAME - 026449

PLOT DATE : 7/22/2021 2:58 PM PLOT BY : JOE MAAS PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

ROAD WORK AHEAD
W20-1A

350'

N ARBON DR

END ROAD WORK
G20-2A
48"X24"

SIDEWALK CLOSED AHEAD
CROSS HERE
R9-11
48"X30"

BEGIN LEFT TURN LANE
R3-20L
24"X36"

SIDEWALK CLOSED
R9-9
24"X12"

476+00
477+00
478+00
479+00
480+00
481+00

R/L STH 100

STH 100 (W. BROWN DEER ROAD)

WO1-6
48" X 24"
TYPE III BARRICADE

350'

ROAD WORK AHEAD
W20-1A

W10-1
36"X36"

BEGIN LEFT TURN LANE
R3-20L
24"X36"

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

WO1-4BR

WO1-6
48" X 24"
TYPE III BARRICADE

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 5	SHEET 652	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026402_S5.DWG
LAYOUT NAME - 026450

PLOT DATE : 7/22/2021 2:59 PM PLOT BY : JOE MAAS PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

SIDEWALK TO REMAIN OPEN FOR PEDESTRIAN DETOUR

ACCESS TO ALWAYS BE MAINTAINED

CANADIAN NATIONAL RAILWAY

482+00

483+00

484+00

R/L STH 100

485+00

486+00

487+00

ROAD WORK AHEAD
W20-1A

N

END ROAD WORK
G20-2A
48"X24"

SEE "DETOUR PLAN: BROWN DEER TRAIL CLOSURE" FOR PEDESTRIAN DETOUR SIGNS

SIDEWALK CLOSED
R9-9
24"X12"

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

350'

R3-2
24"X24"

STOP
R1-1
30"X30"

STH 100 (W. BROWN DEER ROAD)

WO1-6
48" X 24"
TYPE III BARRICADE

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

R3-2
24"X24"

WO1-6
48" X 24"
TYPE III BARRICADE

SIDEWALK CLOSED
R9-9
24"X12"

N. DEERBROOK TRAIL

STOP
R1-1
30"X30"

R3-2
24"X24"

ROAD WORK AHEAD
W20-1A

END ROAD WORK
G20-2A
48"X24"

SEE "DETOUR PLAN: BROWN DEER TRAIL CLOSURE" FOR PEDESTRIAN DETOUR SIGNS

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 5	SHEET 653	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026402_S5.DWG
LAYOUT NAME - 026451
PLOT DATE : 7/22/2021 2:59 PM PLOT BY : JOE MAAS PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

END ROAD WORK
G20-2A
48"X24"

R3-2
24"X24"

W10-1
36"X36"

WO1-6
48" X 24"
TYPE III BARRICADE

ROAD CLOSED AHEAD
W20-3A

ROAD CLOSED 500 FT
W20-3D

PLACE SIGN AT DEERBROOK TR

SIDEWALK CLOSED
R9-9
24"X12"

500'

N. DEERWOOD DRIVE

END ROAD WORK
G20-2A
48"X24"

N

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

R/L STH 100

487+00

488+00

490+00

491+00

492+00

493+00

T4Y

T4W

T8W

STH 100 (W. BROWN DEER ROAD)

W3-3
36"X36"

W06-3

JCT
57
M2-1
21"X15"
M1-6
24"X24"

WO1-6
48" X 24"
TYPE III BARRICADE

N. DEERWOOD DRIVE

350'

10'

STOP
R1-1
30"X30"

R3-2
24"X24"

ROAD WORK AHEAD
W20-1A

END ROAD WORK
G20-2A
48"X24"

STOP
R1-1
30"X30"

R3-2
24"X24"

ROAD WORK AHEAD
W20-1A

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 5	SHEET 654	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026402_S5.DWG
LAYOUT NAME - 026452

PLOT DATE : 7/22/2021 3:00 PM PLOT BY : JOE MAAS PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

STH 57 (N. GREEN BAY ROAD)

STH 100 (W. BROWN DEER ROAD)

EAST | WEST

100 100

M3-2 24"X12"
M1-6 24"X24"
M6-1 21"X21"
M3-4 24"X12"
M1-6 24"X24"
M6-1 21"X21"

STOP
R1-1F
30"X30"

122+00

T4W

TSL

WO1-4R

WO4-2R

493+00
494+00
495+00
496+00
497+00
498+00
499+

T4Y

R/L STH 100

11'
11'

50'

T4W
2' LINE
6' GAP

TSL

T8W

T4W

120+00

119+00

NORTH
57
M3-1 24"X12"
M1-6 24"X24"
M5-1L 21"X21"

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

BEGIN LEFT TURN LANE
R3-20L
24"X36"

ONLY ONLY ONLY
R3-8RR
54"X30"

BEGIN LEFT TURN LANE
R3-20L
24"X36"

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

NORTH
57
M3-1 24"X12"
M1-6 24"X24"
M6-1 21"X21"

STOP
R1-1F
30"X30"

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 5	SHEET 655	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026402_S5.DWG
LAYOUT NAME - 026453

PLOT DATE : 7/22/2021 3:01 PM PLOT BY : JOE MAAS PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

STH 57 (N. GREEN BAY ROAD)

N

INL

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

STOP
R1-1F
30"X30"

NORTH 57
M3-1 24"X12"
M1-6 24"X24"
M6-1 21"X21"

ONLY ONLY ONLY
R3-8X
54"X30"

BEGIN RIGHT TURN LANE
R3-20R
24"X36"

RIGHT LANE CLOSED AHEAD
W20-5A

NORTH 57
M3-1 24"X12"
M1-6 24"X24"
M5-1R 21"X21"

T4W
TSL
T4W
T4W
2' LINE
6' GAP

499+00
500+00
501+00
502+00
503+00
504+00

R/L STH 100

STH 100 (W. BROWN DEER ROAD)

11'
11'
12'
11'
11'

T4Y

WO1-6
48" X 24"
TYPE III BARRICADE

WO1-4R

WO11-2
AHEAD
WO16-9P
24"X12"

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 5	SHEET 656	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026402_S5.DWG
LAYOUT NAME - 026454

PLOT DATE : 7/22/2021 3:02 PM PLOT BY : JOE MAAS PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

ROAD WORK AHEAD
W20-1A

END ROAD WORK
G20-2A
48"X24"

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

WO1-6
48" X 24"
TYPE III BARRICADE

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

N

N. KILDEER COURT

JCT
57
M2-1
21"X15"
M1-6
24"X24"

350'

SIDEWALK CLOSED
R9-9
24"X12"

WATCH FOR TRAFFIC
FMS 8

WO11-2
WO16-7L
24"X12"

WO11-2
WO16-7D
24"X12"

W3-3
36"X36"

STOP
R1-1
30"X30"

R3-2
24"X24"

505+00
506+00
507+00
508+00
509+00
510+00

11'
120' SHIFTING TAPER
R/L STH 100
50'
12'

STH 100 (W. BROWN DEER ROAD)

SPEED LIMIT
40
R2-1
24"X30"

WO1-6
48" X 24"
TYPE III BARRICADE

WO4-3L
48"X48"

SIDEWALK CLOSED
R9-9
24"X12"

WO1-6
48" X 24"
TYPE III BARRICADE

150' SHIFTING TAPER

350'

WATCH FOR TRAFFIC
FMS 8

WO11-2
WO16-7L
24"X12"

STOP
R1-1
30"X30"

R3-2
24"X24"

SIDEWALK CLOSED
R9-9
24"X12"

END ROAD WORK
G20-2A
48"X24"

ROAD WORK AHEAD
W20-1A

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 5	SHEET 657	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026402_S5.DWG
LAYOUT NAME - 026455
PLOT DATE : 4/23/2021 10:52 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

N

WO1-6
48" X 24"

TYPE III BARRICADE

R11-2
48" X 30"
ROAD CLOSED

TYPE III BARRICADE

TRUCKS ENTERING & LEAVING

W8-6A
48"X48"

MILWAUKEE RIVER

25'

12'

510+00 511+00 512+00 513+00 514+00 515+00 516+00

R/L STH 100

11'

12'

11'

STH 100 (W. BROWN DEER ROAD)

WO11-2

AHEAD

WO16-9P
24"X12"

M. MILWAUKEE R.

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 5/STAGE 5A	SHEET 658	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026402_S5.DWG
LAYOUT NAME - 026456

PLOT DATE : 4/23/2021 10:53 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

ROAD CLOSED AHEAD
W20-3A

ROAD CLOSED 500 FT
W20-3D

PLACE SIGN AT GREENBROOK RD

500'

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

N. UPPER RIVER ROAD

WO5-52L
12"X36"

WO1-4L

8:1 TAPER

TRUCKS ENTERING & LEAVING
W8-6A
48"X48"

WO1-6
48" X 24"
TYPE III BARRICADE

CC

25'

516+00
517+00
518+00
519+00
520+00
521+00
522+

R/L STH 100

12'
12'
12'

STH 100 (W. BROWN DEER ROAD)

680'
SHIFTING
TAPER

MH
MH
MH

N

SIGN

INL

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 5/STAGE 5A	SHEET 659	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026402_S5.DWG
LAYOUT NAME - 026457

PLOT DATE : 4/23/2021 10:53 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

270'
SHIFTING
TAPER

W01-6
48" X 24"

TYPE III BARRICADE

WO12-1D
24"X24"

522+00

523+00

524+00

525+00

526+00

527+00

R/L STH 100

STH 100 (W. BROWN DEER ROAD)

WO1-4L

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 5/STAGE 5A	SHEET 660	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026402_S5.DWG
LAYOUT NAME - 026458

PLOT DATE : 4/23/2021 10:54 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

N

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

TRUCKS USE RIGHT LANE
R4-5
24"X30"

LANE SPLIT
500 FT
FMS
11,12,&14

W01-4R
RIGHT LANE
W20-50R
W12-52P

KILDEER COURT
FMS 9

50'

MH

STH 100

528+00 529+00 530+00 531+00 532+00 533+00

R/L STH 100

STH 100 (W. BROWN DEER ROAD)

INL

END ROAD WORK
G20-2A
48"X24"

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 5	SHEET 661	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026402_S5.DWG
LAYOUT NAME - 026459

PLOT DATE : 4/23/2021 10:54 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

540'
MERGING
TAPER

MAX.
13'
WIDTH

TRUCKS
USE
RIGHT
LANE

R4-5

W12-52
48"X48"

W20-50L

LEFT
LANE

W12-52P

25'

12'

12'

534+00

535+00

536+00

537+00

538+00

R/L STH 100

MH

INL

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 5	SHEET 662	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026402_S5.DWG
LAYOUT NAME - 026460

PLOT DATE : 4/23/2021 10:55 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

FMS 17

100 100 KILDEER CT

½ MILE

1140'

LANE SPLIT

1500 FT

FMS 11,12,&16

ROAD WORK AHEAD W20-1A

350'

N

N RANGE LINE ROAD

END ROAD WORK

G20-2A

48"X24"

W04-2R

RIGHT LANE CLOSED AHEAD W20-5A

500'

500'

ROAD WORK AHEAD W20-1A

STH 100 (W. BROWN DEER ROAD)

END ROAD WORK

G20-2A

48"X24"

N RANGE LINE ROAD

350'

ROAD WORK AHEAD W20-1A

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 5	SHEET 663	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026402_S5.DWG
LAYOUT NAME - 026461

PLOT DATE : 4/26/2021 1:32 PM PLOT BY : JOE MAAS PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

MILWAUKEE RIVER

N

WO1-6
48" X 24"

TYPE III BARRICADE

R11-2
48" X 30"
ROAD CLOSED

TYPE III BARRICADE

TRUCKS ENTERING & LEAVING

W8-6A
48"X48"

WO1-4L

25'

12'

510+00 511+00 512+00 513+00 514+00 515+00 516+00

R/L STH 100

11'

12'

11'

STH 100 (W. BROWN DEER ROAD)

WO11-2

AHEAD

WO16-9P
24"X12"

SEE STAGE 5 FOR TRAFFIC CONTROL
WEST OF STA 510+00

MILWAUKEE R.

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 5B	SHEET 664	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026403_S5B.DWG
LAYOUT NAME - 026456

PLOT DATE : 4/23/2021 11:03 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

ROAD CLOSED AHEAD
W20-3A

ROAD CLOSED 500 FT
W20-3D

PLACE SIGN AT GREENBROOK RD

500'

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

N. UPPER RIVER ROAD

8:1 TAPER

320'
SHIFTING
TAPER

TRUCKS ENTERING & LEAVING
W8-6A
48"X48"

WO1-6
48" X 24"
TYPE III BARRICADE

SIGN

11'

516+00
517+00
518+00
519+00
520+00
521+00
522+

12'
12'
12'

STH 100 (W. BROWN DEER ROAD)

MH
MH
MH
MH

WO5-52R
12"X36"

680'
SHIFTING
TAPER

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 5B	SHEET 665	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026403_S5B.DWG
LAYOUT NAME - 026457

PLOT DATE : 4/23/2021 11:04 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

270'
SHIFTING
TAPER

W01-6
48" X 24"

TYPE III BARRICADE

W012-1D
24"X24"

522+00

523+00

524+00

525+00

526+00

527+00

R/L STH 100

STH 100 (W. BROWN DEER ROAD)

SEE STAGE 5 FOR TRAFFIC CONTROL
EAST OF STA 527+50

W01-4L

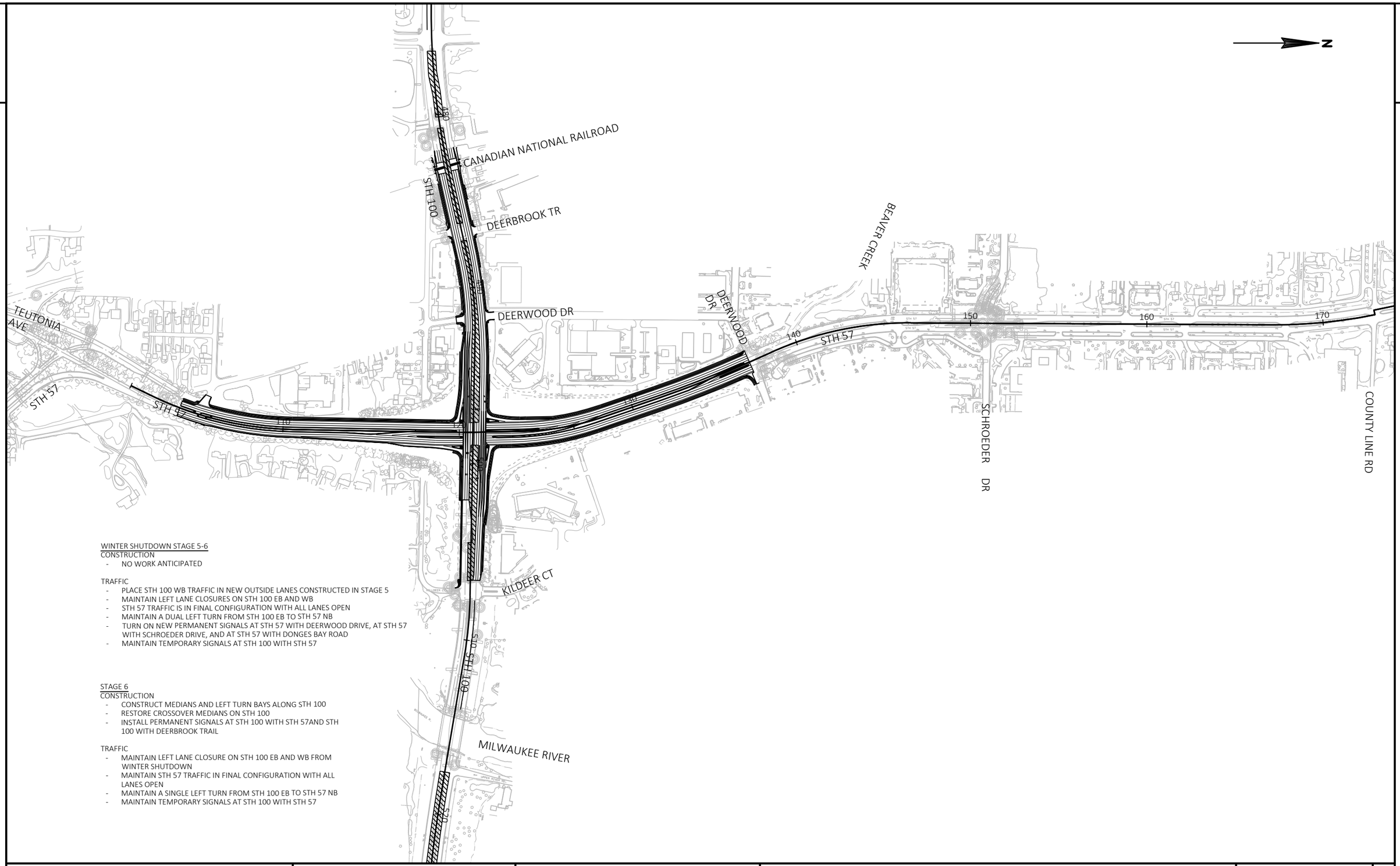
PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 5B	SHEET 666	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026403_S5B.DWG
LAYOUT NAME - 026458

PLOT DATE : 4/23/2021 11:04 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



WINTER SHUTDOWN STAGE 5-6
CONSTRUCTION
- NO WORK ANTICIPATED

TRAFFIC
- PLACE STH 100 WB TRAFFIC IN NEW OUTSIDE LANES CONSTRUCTED IN STAGE 5
- MAINTAIN LEFT LANE CLOSURES ON STH 100 EB AND WB
- STH 57 TRAFFIC IS IN FINAL CONFIGURATION WITH ALL LANES OPEN
- MAINTAIN A DUAL LEFT TURN FROM STH 100 EB TO STH 57 NB
- TURN ON NEW PERMANENT SIGNALS AT STH 57 WITH DEERWOOD DRIVE, AT STH 57 WITH SCHROEDER DRIVE, AND AT STH 57 WITH DONGES BAY ROAD
- MAINTAIN TEMPORARY SIGNALS AT STH 100 WITH STH 57

STAGE 6
CONSTRUCTION
- CONSTRUCT MEDIANS AND LEFT TURN BAYS ALONG STH 100
- RESTORE CROSSOVER MEDIANS ON STH 100
- INSTALL PERMANENT SIGNALS AT STH 100 WITH STH 57AND STH 100 WITH DEERBROOK TRAIL

TRAFFIC
- MAINTAIN LEFT LANE CLOSURE ON STH 100 EB AND WB FROM WINTER SHUTDOWN
- MAINTAIN STH 57 TRAFFIC IN FINAL CONFIGURATION WITH ALL LANES OPEN
- MAINTAIN A SINGLE LEFT TURN FROM STH 100 EB TO STH 57 NB
- MAINTAIN TEMPORARY SIGNALS AT STH 100 WITH STH 57

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	STAGE 6 & WINTER SHUTDOWN STAGE 5-6 OVERVIEW	SHEET 667	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026500_S6O.DWG
LAYOUT NAME - 026501
PLOT DATE : 4/22/2021 10:10 AM
PLOT BY : TONY BUBLITZ
PLOT NAME :
PLOT SCALE : 1 IN:500 FT
WISDOT/CADDS SHEET 42

2

ROAD WORK AHEAD
W20-1A

350'

N 51st St

N

470+00.00

2

13'

12'

464+00 465+00 466+00 467+00 468+00 469+00 470+00

25'

R/L STH 100

STH 100 (W. BROWN DEER ROAD)

12'

15'

T4Y

320'
MERGING
TAPER

350' 350' 350'

ROAD WORK AHEAD
W20-1A

LEFT LANE CLOSED AHEAD
W20-5SA

W04-2L

464+10.00

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 6 & WINTER SHUTDOWN STAGE 5-6	SHEET 668	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026502_S6.DWG
LAYOUT NAME - 026550

PLOT DATE : 4/23/2021 12:09 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

END ROAD WORK
G20-2A
48"X24"

WO1-6
48" X 24"
TYPE III BARRICADE

BEGIN LEFT TURN LANE
R3-20L
24"X36"

ROAD WORK AHEAD
W20-1A

350'

475+75.00

N

N ARBON DR

2

470+00 471+00 472+00 473+00 R/L STH 100 474+00 475+00

25'

STH 100 (W. BROWN DEER ROAD)

WO1-6
48" X 24"
TYPE III BARRICADE

BEGIN LEFT TURN LANE
R3-20L
24"X36"

T8W

SPEED LIMIT 40
R2-1
24"X30"

END ROAD WORK
G20-2A
48"X24"

470+00.00

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 6 & WINTER SHUTDOWN STAGE 5-6	SHEET 669	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026502_S6.DWG
LAYOUT NAME - 026551

PLOT DATE : 4/23/2021 12:10 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

END ROAD WORK
G20-2A
48"X24"

N ARBON DR

BEGIN LEFT TURN LANE
R3-20L
24"X36"

WO1-6
48" X 24"
TYPE III BARRICADE

R4-7

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

476+00
477+00
478+00
479+00
480+00
481+00

R/L STH 100

12'
13'

STH 100 (W. BROWN DEER ROAD)

WO1-6
48" X 24"
TYPE III BARRICADE

350'

BEGIN LEFT TURN LANE
R3-20L
24"X36"

WO1-6
48" X 24"
TYPE III BARRICADE

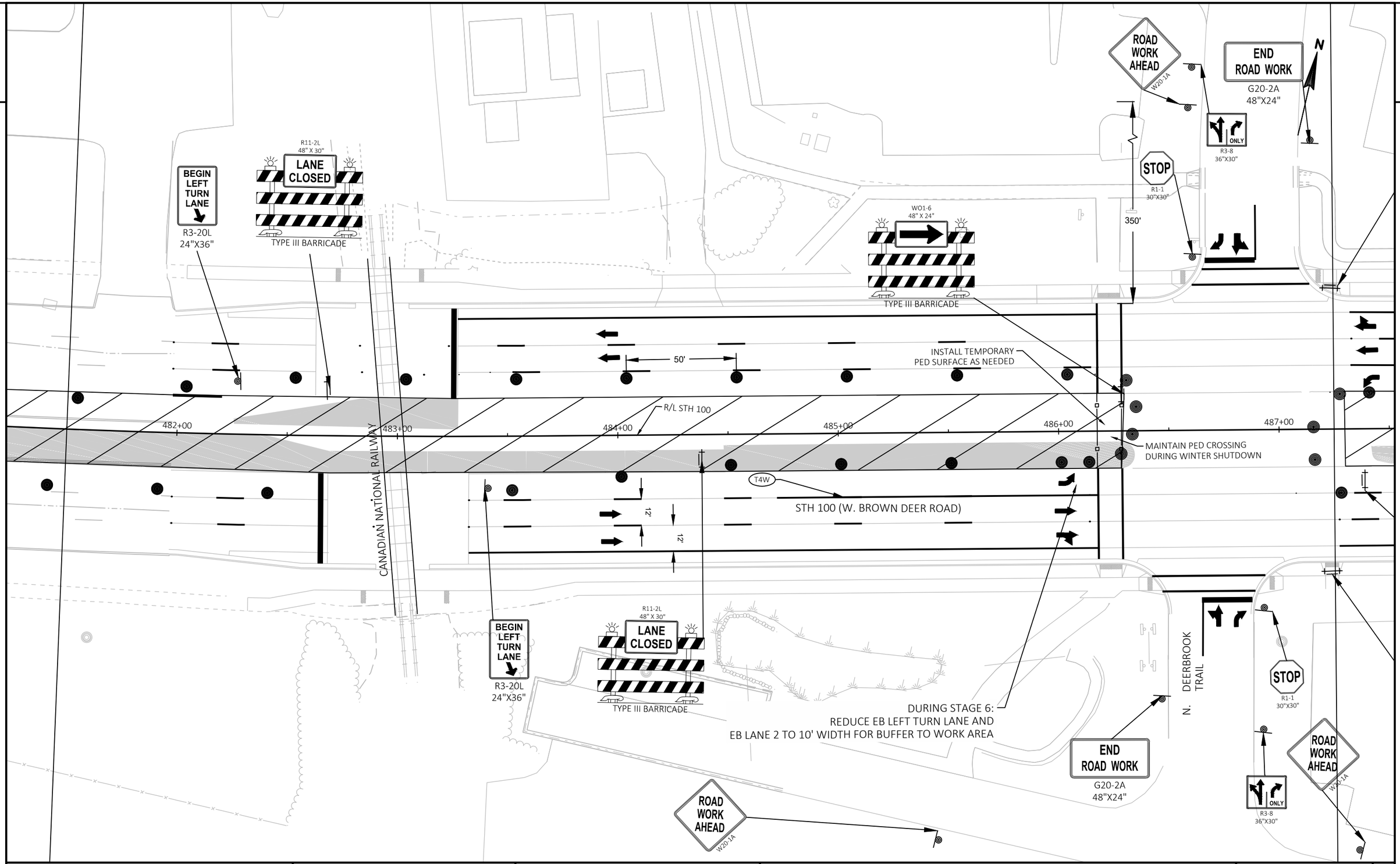
R R
W10-1
36"X36"

ROAD WORK AHEAD
W20-1A

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 6 & WINTER SHUTDOWN STAGE 5-6	SHEET 670	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026502_S6.DWG
LAYOUT NAME - 026552
PLOT DATE : 4/23/2021 12:10 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 6 & WINTER SHUTDOWN STAGE 5-6	SHEET 671	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026502_S6.DWG
LAYOUT NAME - 026553

PLOT DATE : 4/23/2021 12:11 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

DURING STAGE 6:
REDUCE WB LEFT TURN LANE AND
WB LANE 2 TO 10' WIDTH FOR BUFFER TO WORK AREA

SIDEWALK CLOSED
USE OTHER SIDE
R9-10
48"X24"

W10-1
36"X36"

BEGIN
LEFT
TURN
LANE
R3-20L
24"X36"

ROAD
WORK
AHEAD
W20-1A

ONLY
R3-50R
30"X36"

END
ROAD WORK
G20-2A
48"X24"

N

WO1-6
48" X 24"
TYPE III BARRICADE

STOP
R1-1
30"X30"

350'

T4W

12'
12'
12'

R/L STH 100

487+00
488+00
489+00
490+00
491+00
492+00
493+00

STH 100 (W. BROWN DEER ROAD)

12'
12'

WO1-6
48" X 24"
TYPE III BARRICADE

W3-3
36"X36"

JCT
57

R11-2
48" X 30"
ROAD
CLOSED
TYPE III BARRICADE

N. DEERWOOD DRIVE

STOP
R1-1
30"X30"

350'

ONLY
R3-50R
30"X36"

ROAD
WORK
AHEAD
W20-1A

END
ROAD WORK
G20-2A
48"X24"

STOP
R1-1
30"X30"

ROAD
WORK
AHEAD
W20-1A

SIDEWALK CLOSED
USE OTHER SIDE
R9-10
48"X24"

ONLY
R3-8
36"X30"

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 6 & WINTER SHUTDOWN STAGE 5-6	SHEET 672	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026502_S6.DWG
LAYOUT NAME - 026554
PLOT DATE : 4/23/2021 12:11 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

ROAD WORK AHEAD
W20-1A

STOP
R1-1F
30"X30"

YIELD
R1-2
36"X31"

SIDEWALK CLOSED
R9-9
24"X12"

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

N

STH 57 (N. GREEN BAY ROAD)

122+00

121+00

120+00

119+00

50'

12'

T4W

P4Y

R/L STH 100

493+00

494+00

495+00

496+00

497+00

498+00

STH 100 (W. BROWN DEER ROAD)

NORTH
57
M1-6

BEGIN LEFT TURN LANE
R3-20L
24"X36"

ONLY ONLY ONLY ONLY
R3-8FFF
72"X30"
WINTER

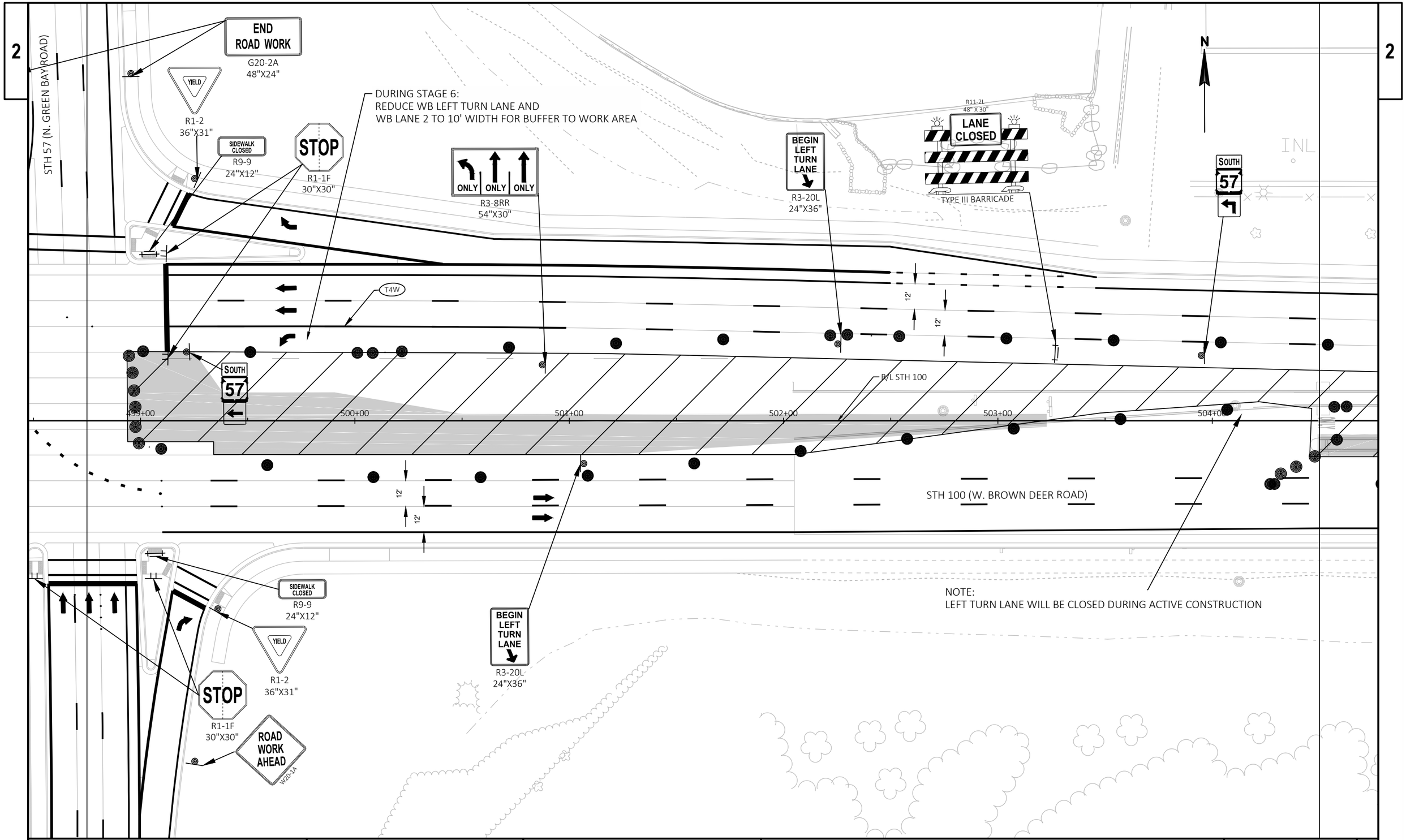
ONLY ONLY ONLY
R3-8RR
54"X30"
STAGE 6

DURING STAGE 6:
CLOSE INSIDE LEFT TURN LANE
REDUCE EB LEFT TURN LANE AND
EB LANE 2 TO 10' WIDTH FOR BUFFER TO WORK AREA

END ROAD WORK
G20-2A
48"X24"

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 6 & WINTER SHUTDOWN STAGE 5-6	SHEET 673	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026502_S6.DWG
LAYOUT NAME - 026555
PLOT DATE : 4/23/2021 12:11 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42



PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 6 & WINTER SHUTDOWN STAGE 5-6	SHEET 674	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026502_S6.DWG
LAYOUT NAME - 026556

PLOT DATE : 4/23/2021 12:12 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

ROAD WORK AHEAD
W20-1A

WO1-6
48" X 24"
TYPE III BARRICADE

W3-3
36"X36"

JCT
57

350'

N. KILDEER COURT

END ROAD WORK
G20-2A
48"X24"

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

SPEED LIMIT
40
R2-1
24"X30"

50'

505+00
506+00
507+00
508+00
509+00
510+00

R/L STH 100

STH 100 (W. BROWN DEER ROAD)

WO1-6
48" X 24"
TYPE III BARRICADE

350'

END ROAD WORK
G20-2A
48"X24"

ROAD WORK AHEAD
W20-1A

KILDEER CT.

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 6 & WINTER SHUTDOWN STAGE 5-6	SHEET 675	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026502_S6.DWG
LAYOUT NAME - 026557

PLOT DATE : 4/23/2021 12:12 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

MILWAUKEE RIVER

BEGIN LEFT TURN LANE

R3-20L
24"X36"

510+00

511+00

512+00

513+00

514+00

515+00

516+00

R/L STH 100

STH 100 (W. BROWN DEER ROAD)

R11-2L
48" X 30"

LANE CLOSED

TYPE III BARRICADE

BEGIN LEFT TURN LANE

R3-20L
24"X36"

MILWAUKEE R.

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 6 & WINTER SHUTDOWN STAGE 5-6	SHEET 676	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026502_S6.DWG
LAYOUT NAME - 026558

PLOT DATE : 4/23/2021 12:12 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

ROAD WORK AHEAD
W20-1A

350'

W01-6
48" X 24"
TYPE III BARRICADE

N. UPPER RIVER ROAD

END ROAD WORK
G20-2A
48"X24"

BEGIN LEFT TURN LANE
R3-20L
24"X36"

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

N

SIGN

516+00 517+00 518+00 519+00 520+00 521+00 522+

R/L STH 100

STH 100 (W. BROWN DEER ROAD)

12'
12'

W01-6
48" X 24"
TYPE III BARRICADE

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

MH

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 6 & WINTER SHUTDOWN STAGE 5-6	SHEET 677	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026502_S6.DWG
LAYOUT NAME - 026559

PLOT DATE : 4/23/2021 12:12 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

N

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

522+00
523+00
524+00
525+00
526+00
527+00
R/L STH 100

STH 100 (W. BROWN DEER ROAD)

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 6 & WINTER SHUTDOWN STAGE 5-6	SHEET 678	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026502_S6.DWG
LAYOUT NAME - 026560
PLOT DATE : 4/23/2021 12:13 PM
PLOT BY : TONY BUBLITZ
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

527+50.00

N

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

T4Y

12'
12'
25'

MH
MH
INL

STH 100

528+00
529+00
530+00
531+00
532+00
533+00

R/L STH 100

STH 100 (W. BROWN DEER ROAD)

INL
INL
INL

END
ROAD WORK
G20-2A
48"X24"

540'
MERGING
TAPER

2

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 6 & WINTER SHUTDOWN STAGE 5-6	SHEET 679	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026502_S6.DWG
LAYOUT NAME - 026561

PLOT DATE : 4/23/2021 12:13 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

W04-2L

LEFT LANE CLOSED AHEAD
W20-5SA

ROAD WORK AHEAD
W20-1A

500'

500'

500'

MH

12'

12'

13'

534+00

535+00

536+00

537+00

538+00

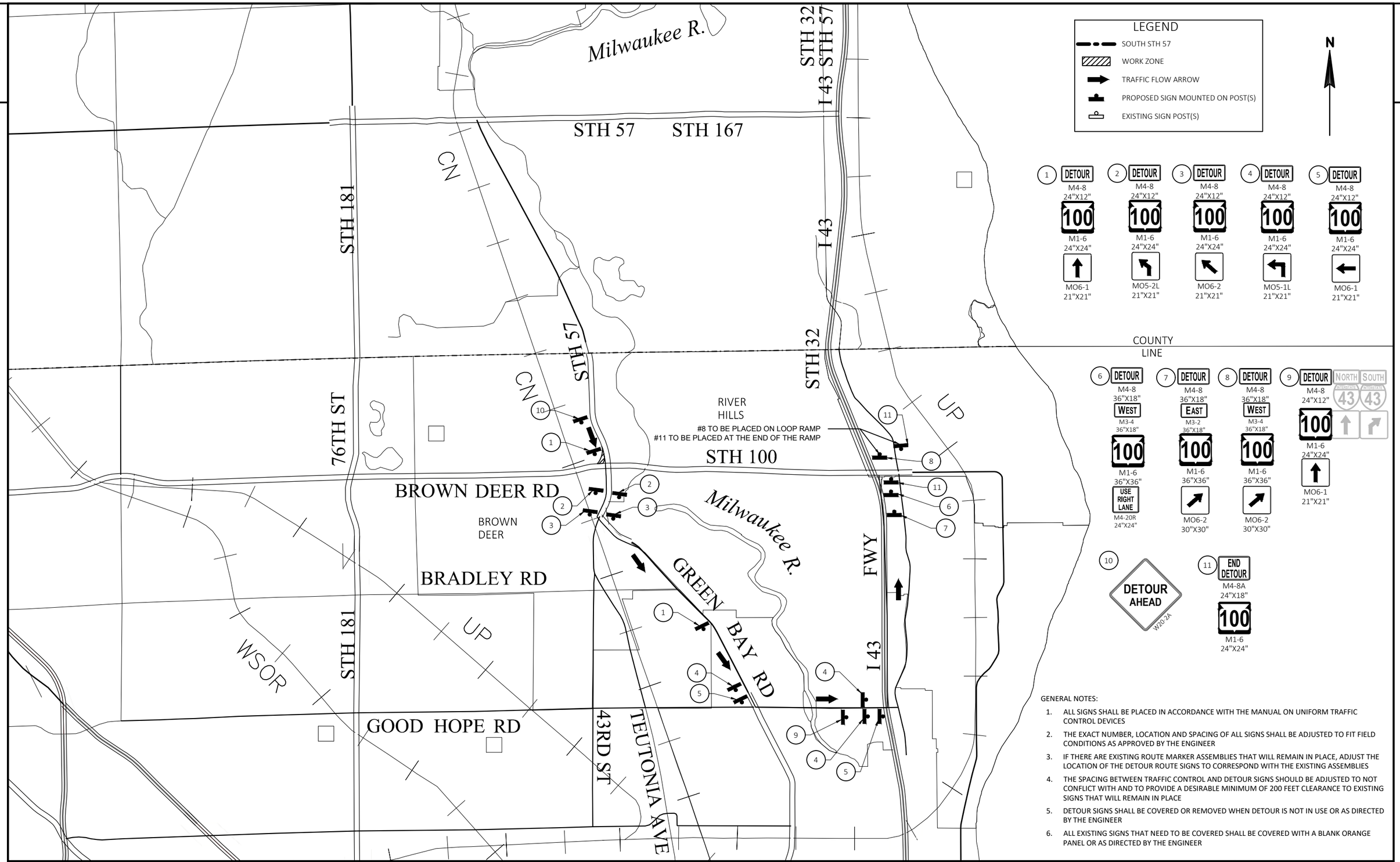
R/L STH 100

533+50.00

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION STAGING - STAGE 6 & WINTER SHUTDOWN STAGE 5-6	SHEET 680	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\026502_S6.DWG
LAYOUT NAME - 026562

PLOT DATE : 4/23/2021 12:13 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT



GENERAL NOTES:

1. ALL SIGNS SHALL BE PLACED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
2. THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER
3. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES
4. THE SPACING BETWEEN TRAFFIC CONTROL AND DETOUR SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE
5. DETOUR SIGNS SHALL BE COVERED OR REMOVED WHEN DETOUR IS NOT IN USE OR AS DIRECTED BY THE ENGINEER
6. ALL EXISTING SIGNS THAT NEED TO BE COVERED SHALL BE COVERED WITH A BLANK ORANGE PANEL OR AS DIRECTED BY THE ENGINEER

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	DETOUR PLAN : SB OFF RAMP CLOSURE	SHEET 681	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\027001_DT.DWG
LAYOUT NAME - 027001
PLOT DATE : 4/1/2021 11:25 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1IN:0.75 MI
WISDOT/CADDS SHEET 42

2

Milwaukee R.

STH 32 STH 57

I 43

STH 57 STH 167

CN

STH 181

COUNTY LINE

CN STH 57

STH 32

UP

76TH ST

RIVER HILLS

BROWN DEER RD

STH 100

Milwaukee R.

BROWN DEER

BRADLEY RD

I 43 FWY

GREEN BAY

STH 181

UP

WSOR

TEUTONIA AVE

GOOD HOPE RD

43RD ST

W MILL RD

LEGEND

- NORTH/SOUTH STH 57
- NORTH 43RD ST & TEUTONIA AVE TO STH 57
- WORK ZONE
- TRAFFIC FLOW ARROW
- PROPOSED SIGN MOUNTED ON POST(S)
- EXISTING SIGN POST(S)
- COVER EXISTING SIGNS

N

1 DETOUR M4-8 24"X12" / SOUTH M3-3 24"X12" / 57 M1-6 24"X24" / MO5-1R 21"X21"

2 DETOUR M4-8 24"X12" / SOUTH M3-3 24"X12" / 57 M1-6 24"X24" / MO6-1 21"X21"

3 DETOUR M4-8 24"X12" / SOUTH M3-3 24"X12" / 57 M1-6 24"X24" / MO5-1L 21"X21"

4 DETOUR M4-8 24"X12" / SOUTH M3-3 24"X12" / 57 M1-6 24"X24" / MO6-1 21"X21"

5 DETOUR M4-8 24"X12" / NORTH M3-1 24"X12" / 57 M1-6 24"X24" / MO5-1R 21"X21"

6 DETOUR M4-8 24"X12" / NORTH M3-1 24"X12" / 57 M1-6 24"X24" / MO6-1 21"X21"

7 DETOUR M4-8 24"X12" / NORTH M3-1 24"X12" / 57 M1-6 24"X24" / MO5-1L 21"X21"

8 DETOUR M4-8 24"X12" / NORTH M3-1 24"X12" / 57 M1-6 24"X24" / MO6-1 21"X21"

9 DETOUR M4-8 24"X12" / 57 M1-6 24"X24" / MO6-1 21"X21"

10 DETOUR AHEAD W20-2A

11 DETOUR M4-8 24"X12" / SOUTH / 57 / MO6-1 21"X21"

12 SOUTH 57

13 NORTH 57 / END DETOUR M4-8A 24"X18" / SOUTH 57

14 END DETOUR M4-8A 24"X18" / NORTH EAST SOUTH / 57 167 57

GENERAL NOTES:

1. ALL SIGNS SHALL BE PLACED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
2. THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER
3. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES
4. THE SPACING BETWEEN TRAFFIC CONTROL AND DETOUR SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE
5. DETOUR SIGNS SHALL BE COVERED OR REMOVED WHEN DETOUR IS NOT IN USE OR AS DIRECTED BY THE ENGINEER
6. ALL EXISTING SIGNS THAT NEED TO BE COVERED SHALL BE COVERED WITH A BLANK ORANGE PANEL OR AS DIRECTED BY THE ENGINEER
7. DETOUR FOR STAGE 2 OF PROJECT ID 2270-04-00 IS TO BE IN CONJUNCTION WITH PROJECT ID 2565-04-00 DETOUR

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	DETOUR PLAN : STH 57/ TEUTONIA AVENUE CLOSURE	SHEET 682	E

2

N

DEERBROOK TRAIL

ARBON DR.

STH 100

1 DETOUR
M4-9AL
30"X24"

2 DETOUR
M4-9AR
30"X24"

3 END DETOUR
M4-8A
24"X18"

4 WALK BIKE ON SIDEWALK
FMS 18

5
WO11-2
30"X30"
AHEAD
W16-9P
24"X12"

6 SIDEWALK CLOSED
R9-9
24"X12"

LEGEND

- PEDESTRIAN DETOUR ROUTE
- WORK ZONE
- TRAFFIC FLOW ARROW
- PROPOSED SIGN MOUNTED ON POST(S)
- EXISTING SIGN POST(S)
- PROPOSED SIGN MOUNTED ON BARRICADE

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	DETOUR PLAN :BROWN DEER TRAIL CLOSURE	SHEET 683	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\027005_DT.DWG
LAYOUT NAME - 027005

PLOT DATE : 4/1/2021 1:38 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

N

Milwaukee R.

STH 32
I 43 STH 57

STH 57

STH 167

STH 181

DONGES BAY RD

CN

CN

LEGEND

- DONGES BAY ROAD
- WORK ZONE
- TRAFFIC FLOW ARROW
- PROPOSED SIGN MOUNTED ON POST(S)
- EXISTING SIGN POST(S)

1 DETOUR M4-8 24"X12" — DONGES BAY ROAD — FMS 10 — MO5-1L 21"X21"

2 DETOUR M4-8 24"X12" — DONGES BAY ROAD — FMS 10 — MO6-1 21"X21"

3 DETOUR M4-8 24"X12" — DONGES BAY ROAD — FMS 10 — MO5-1R 21"X21"

4 DETOUR M4-8 24"X12" — DONGES BAY ROAD — FMS 10 — MO6-1 21"X21"

5 END DETOUR M4-8A 24"X18" — DONGES BAY ROAD — FMS 10

6 DETOUR M4-8 24"X12" — DONGES BAY ROAD — FMS 10 — MO5-2R 21"X21"

7 DETOUR M4-8 24"X12" — DONGES BAY ROAD — FMS 10 — MO6-2 21"X21"

8 DETOUR AHEAD W20-2A

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	DETOUR PLAN : WEST DONGES BAY ROAD CLOSURE	SHEET 684	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\027007_DT.DWG
LAYOUT NAME - 027001

PLOT DATE : 4/1/2021 3:10 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:0.5 MI

WISDOT/CADDS SHEET 42

2

2

N

SECTION LINE

N0° 57' 44"E

2652.23'

SECTION LINE 2671.50'

S89° 58' 42"E

T 8 N R 21 E 2

X=591306.79
Y=350267.86

N0° 58' 29"E

2645.79'

SECTION LINE

PC 100B

CURVE 100B

490

PI 100B

PT 100B

R/L STH 100

495

496+32.18 STH 100 =
6+05.44 RAMP C
X=591833.14
Y=350546.39

R/L RAMP C
EXISTING SB
EXIT RAMP

PC RCA

PI RCA

PT RCA

N0° 07' 15"W

10

15

130

PT 57C

N19° 47' 43"W

PC 57D

S89° 50' 20"E

PC 57C

PI 57C

CURVE 57C

125

N1° 50' 20"W

BEGIN PROJECT 2270-04-70
STA 104+00.00
X=591910.68
Y=348880.56

N25° 01' 13"E

PC 57A

100+96.04 STH 57
X=591789.62
Y=348601.90

105

CURVE 57A

PT 57A

110

PI 57A

R/L STH 57

115

N0° 09' 26"E

PC 57B

PI 57B

PT 57B

120

CURVE 57B

498+20.81 STH 100 =
120+78.25 STH 57
X=592021.77
Y=350545.86

500

SECTION LINE

2652.35'

S89° 50' 14"E

505

END CONSTRUCTION
STA 508+58.64

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	ALIGNMENT LAYOUT	SHEET 685	E

2

N

SECTION LINE

S89° 50' 50"E

2676.29'

T 8 N R 21 E 2

X=559151.80
Y=352913.27

SECTION LINE

N0° 58' 29"E

2645.79'

PI
57E

PC
57E

PT
57D

N25° 02' 32"W

PT
RCA

CURVE 57D

PI
57D

CURVE 57E

PT
57E

R/L STH 57

N0° 37' 18"W

2730.51'

S0° 34' 06"W

SECTION LINE

SECTION LINE

2666.04'

N89° 55' 10"E

135

140

145

150

155

160

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	ALIGNMENT LAYOUT	SHEET 686	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\027201_AD.DWG
LAYOUT NAME - 027202

PLOT DATE : 3/15/2021 1:55 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:200 FT

2

2

N

165

N0° 37' 18"W

PC
57F

CURVE 57F

170

PI
57F

2730.51'

S0° 34' 06"W

SECTION LINE

PT
57F

S77° 35' 34"W

173+24.23 STH 57
X=591246.53
Y=355642.43

N89° 29' 14"W

2635.31'

SECTION LINE

175

N12° 24' 26"W

R/L STH 57

180

PC
57G

CURVE 57G

185

PI
57G

PT
57G

190

N22° 51' 37"W

X=591378.69
Y=355643.64

T 8 N
R 21 E
2

X=591410.62
Y=353943.38

T 9 N
R 21 E
35

2646.02'

S0° 49' 06"W

SECTION LINE

2655.97'

S89° 31' 54"E

SECTION LINE

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	ALIGNMENT LAYOUT	SHEET 687	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\027201_AD.DWG
LAYOUT NAME - 027203

PLOT DATE : 3/15/2021 1:55 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 42

2

2

2665.41'
S0° 22' 52"W

SECTION LINE

SECTION LINE

195

N22° 51' 37"W

200

N23° 05' 20"W

205

R/L STH 57

210

PC
57H

215

CURVE 57H

PT
57H

220

N27° 03' 09"W

225

PI
57H

201+36.15 STH 57
X=590342.68
Y=358294.63

2645.52'
S89° 37' 15"E

1544

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	ALIGNMENT LAYOUT	SHEET 688	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\027201_AD.DWG
LAYOUT NAME - 027204

PLOT DATE : 3/15/2021 1:55 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:200 FT

2

2

N

45+00.00 DONGES BAY ROAD
X=588584.99
Y=360974.11

SECTION LINE
2659.91'
S89° 29' 02"E

SECTION LINE
2665.41'
S0° 22' 52"W

S89° 29' 02"E

X=588820.68
Y=360971.99

T 9 N R 21 E 26

229+72.15 STH 57
X=589139.51
Y=360861.06

225 N27° 03' 09"W 230 235 240 N26° 57' 48"W 245 R/L STH 57 250 253+39.69 STH 57
X=588066.02
Y=362971.24
255 N26° 56' 28"W

230+92.81 STH 57 =
49+99.84 DONGES BAY ROAD
X=589084.80
Y=360968.60

S89° 15' 53"E

R/L DONGES BAY ROAD

55+00.00 DONGES BAY ROAD
X=589584.92
Y=360962.18

S89° 15' 53"E
2665.16'

SECTION LINE

SECTION LINE
2644.56'
S0° 01' 12"E

X=588819.75
Y=363616.55

T 9 N R 21 E 26

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	ALIGNMENT LAYOUT	SHEET 689	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\027201_AD.DWG
LAYOUT NAME - 027205

PLOT DATE : 3/15/2021 1:55 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:200 FT

2

2

N

SECTION LINE

2649.42'
S89° 20' 46"E

260

N26° 56' 28"W

265

R/L STH 57

270

N26° 56' 28"W

275

PC
57I

PI
57I

CURVE 57I

280

PT
57I

N21° 36' 09"W

285

END PROJECT
STA 281+98.20

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	ALIGNMENT LAYOUT	SHEET 690	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\027201_AD.DWG
LAYOUT NAME - 027206

PLOT DATE : 3/15/2021 1:55 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:200 FT

2

2

N

457+39.23 STH 100
X=587966.41
Y=350269.17

460 S89° 58' 34"E

R/L STH 100

465

470

475

PC
100A

CURVE 100A

480

PI
100A

SECTION LINE

485 N76° 27' 28"E

PC
100B

PT
100A

S89° 58' 42"E
2671.50'

BEGIN CONSTRUCTION
STA 481+97.91

2651.84'
S0° 52' 09"W

SECTION LINE

T 8 N
R 21 E
2

X=588635.29
Y=350268.87

SECTION LINE

2648.85'
S0° 51' 59"W

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	ALIGNMENT LAYOUT	SHEET 691	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\027201_AD.DWG
LAYOUT NAME - 027208

PLOT DATE : 3/15/2021 1:55 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 42

2

2

N

SECTION LINE

2657.34'

S1° 15' 58"W

PI
100C

CURVE 100C

PC
100C

PT
100C

510

515 S81° 18' 59"E

R/L STH 100

PC
100D

520

525

CURVE 100D

PI
100D

530

535

PT
100C

N88° 30' 42"E

S89° 50' 14"E

2652.35'

SECTION LINE

T 8 N
R 21 E
1

X=593959.13
Y=350260.33

SECTION LINE

2668.48'

S0° 58' 49"W

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	ALIGNMENT LAYOUT	SHEET 692	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\027201_AD.DWG
LAYOUT NAME - 027209

PLOT DATE : 3/15/2021 1:55 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 42

NUMBER	ROADWAY NAME	PI STATION	PI COORDINATES		Δ	D	T	L	E	R	PC STATION	PC COORDINATES		PT STATION	PT COORDINATES	
			X	Y								X	Y		X	Y
57A	STH 57	106+44.42	592021.6	349098.8	24° 51' 46.62'"	3°0'0"	421.010'	828.765'	45.853'	1909.859'	102+23.41	591843.5	348717.3	110+52.18	592022.7	349519.8
57B	STH 57	119+70.6	592025.2	350438.2	1°59'46.32"	0°57'50.13"	103.556'	207.090'	0.902'	5944.0'	118+67.04	592024.9	350334.7	120+74.13	592021.9	350541.7
57C	STH 57	125+86.62	592005.5	351054	17°57'22.62"	3°39'48.29"	247.102'	490.152'	19.4'	1564.0'	123+39.52	592013.4	350807	128+29.67	591921.8	351286.5
57D	STH 57	134+25.02	591720.2	351846.6	5°14'49.04"	0°57'39.66"	273.181'	545.980'	6.255'	5962.0'	131+51.84	591812.7	351589.6	136+97.82	591604.5	352094.1
57E	STH 57	142+60.53	591366.3	352604	24°25'14.04"	3°0'0"	413.285'	814.019'	44.205'	1909.859'	138+47.25	591541.3	352229.5	146+61.27	591361.8	353017.2
57F	STH 57	170+03.64	591336.4	355359.5	11° 47' 7.87'"	2°0'0"	295.681'	589.276'	15.219'	2864.789'	167+07.95	591339.6	355063.8	172+97.23	591272.9	355648.2
57G	STH 57	184+12.68	591012.7	356705.5	10°27'10.69"	2°30'0"	209.641'	418.119'	9.568'	2291.831'	182+03.04	591057.7	356500.7	186+21.16	590931.2	356898.6
57H	STH 57	215+20.59	589799.76	359568.17	3°57'48.44"	1°0'0"	198.252'	396.346'	3.429'	5729.578'	213+22.34	589877.5	359385.8	217+18.68	589709.6	359744.7
57I	STH 57	279+31.47	586891.75	365281.74	5°20'18.71"	1°0'0"	267.120'	533.853'	6.223'	5729.578'	276+64.35	587012.8	365043.6	281+98.2	586793.4	365530.1
100A	STH 100	478+50.57	590077.8	350268.3	13°33'58.57"	1°20'0.2"	511.103'	1017.427'	30.290'	4297.0'	473+39.47	589566.7	350268.5	483+56.9	590574.6	350388
100B	STH 100	490+40.56	591239.3	350548.1	13°42'12"	2°57'34.17"	232.625'	463.030'	13.926'	1936.0'	488+07.93	591013.1	350493.6	492+70.96	591471.9	350547.4
100C	STH 100	509+19.23	593120.2	350542.8	8°31'21.05"	2°29'59.34"	170.778'	340.926'	6.354'	2292.0'	507+48.45	592949.4	350543.3	510+89.38	593289	350517
100D	STH 100	527+01.48	594882.6	350273.6	10°10'18.77"	0°33'29.99"	913.321'	1821.842'	40.563'	10262.0'	517+88.16	593979.8	350411.5	536+10.00	595795.6	350297.3
RCA	Ramp C	15+00.19	591831.3	351441.1	20°37' 3.91"	4°16'42.67"	243.579'	481.890'	21.972'	1339.150'	12+56.61	591831.8	351197.6	17+38.5	591745	351668.9

2

BM 222
HYD NE BOLT
660.328
X = 348900.00
Y = 591807.00
STA 103+82.35
104.1' LT

SB STH 57
NB STH 57
104+00
105+00

CP 101
BERNTSEN FENO MONUMENT
656.228
X = 349093.62
Y = 591857.58
STA 105+94.42
112.6' LT

RUTH PL
SB STH 57
NB STH 57
106+00
107+00

NB STH 57
118+00

NB STH 57
EXIT RAMP

CP 104
BERNTSEN FENO MONUMENT
654.265
X = 350278.15
Y = 592213.98
STA 118+11.02
189.2' RT

SB STH 57
EXIT RAMP
SB STH 57
126+00
125+00

CP 105
BERNTSEN FENO MONUMENT
653.921
X = 350963.08
Y = 591819.79
STA 125+23.11
179.0 LT

SB STH 57
NB STH 57
130+00
129+00

BM 218
HYD WNW BOLT
654.838
X = 351409.00
Y = 591946.00
STA 129+36.75
64.3' RT

CP 106
BERNTSEN FENO MONUMENT
654.273
X = 351352.07
Y = 592007.56
STA 128+62.34
102.3' RT

SB STH 57
NB STH 57
135+00
134+00

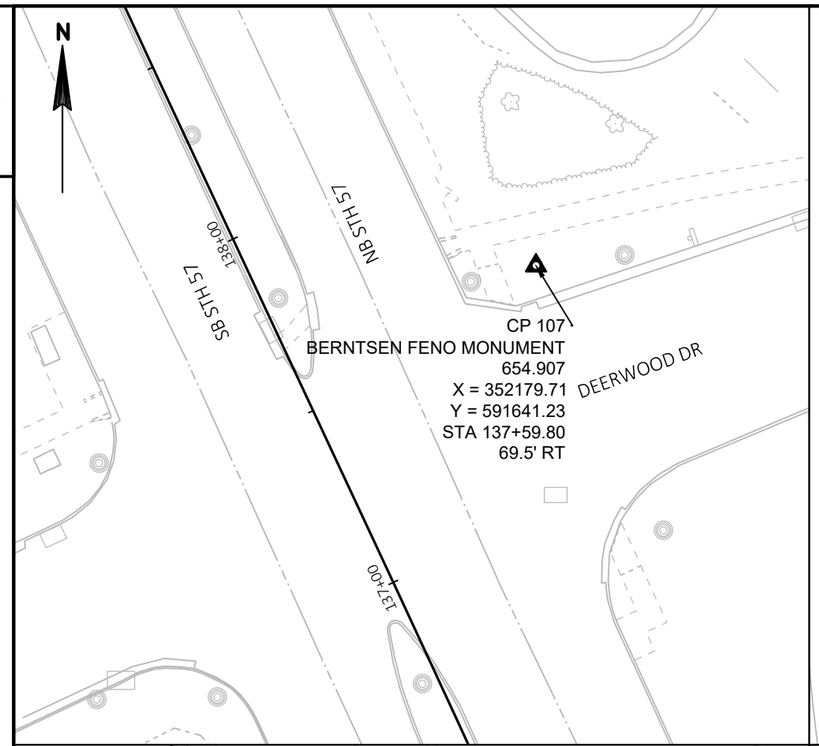
BM 217
HYD NNE BOLT
655.947
X = 351857.00
Y = 591783.00
STA 134+10.60
68.3' LT

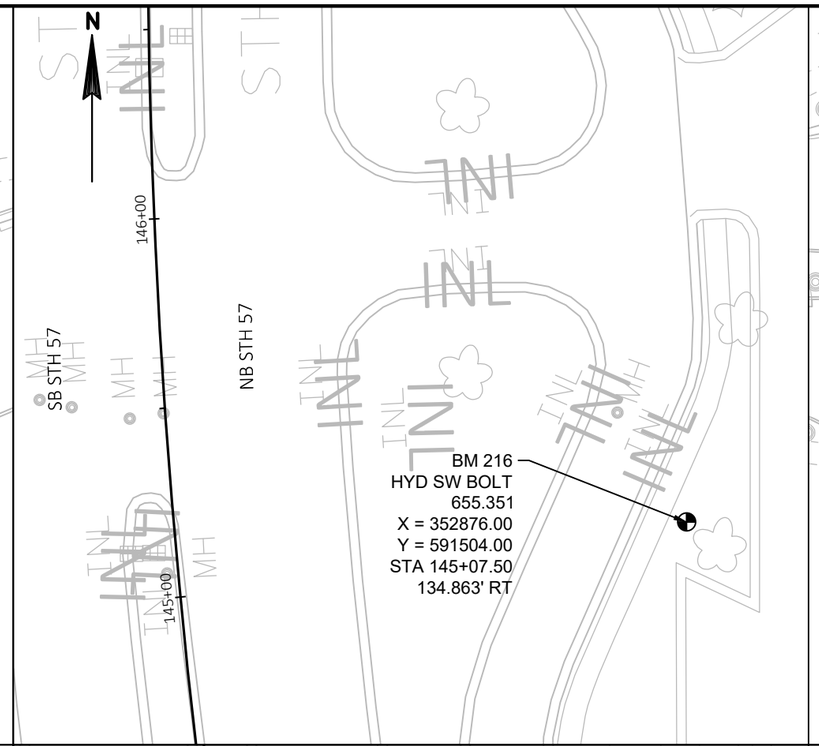
2

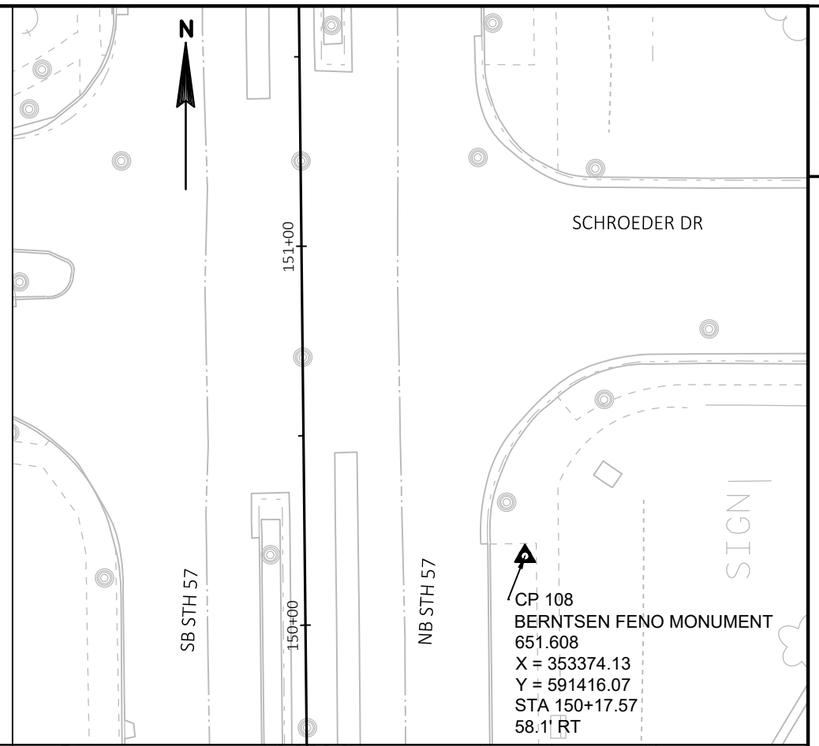
PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	ALIGNMENT LAYOUT	SHEET 694	E

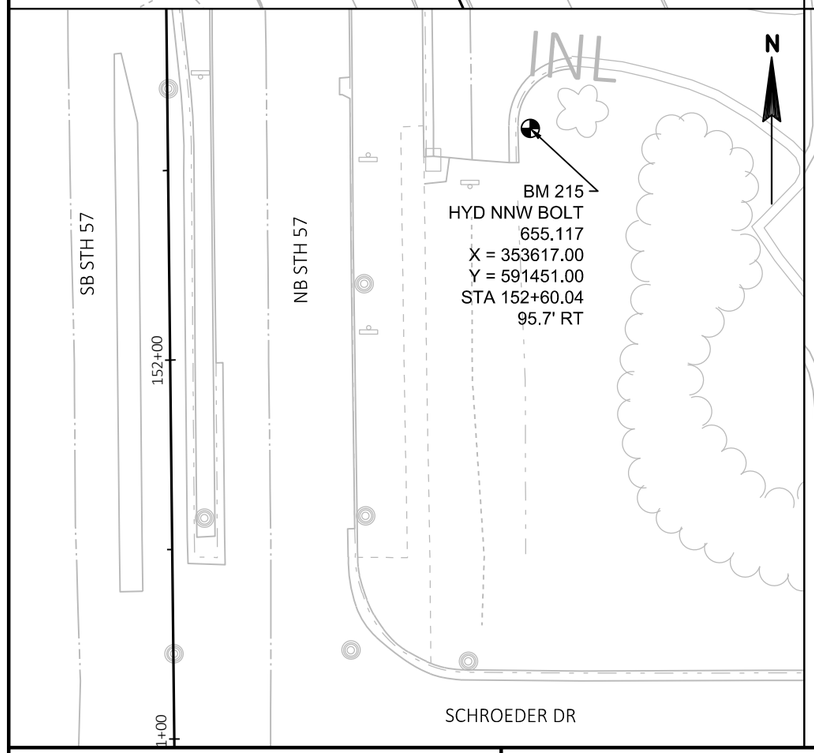
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LAYOUT NAME - 027220
PLOT DATE : 3/22/2021 12:53 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

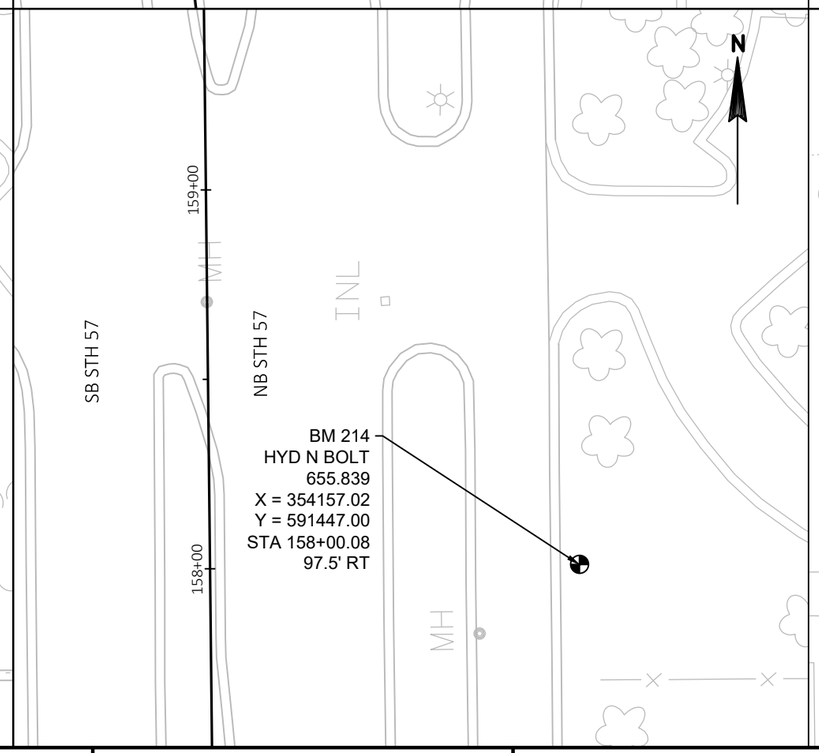
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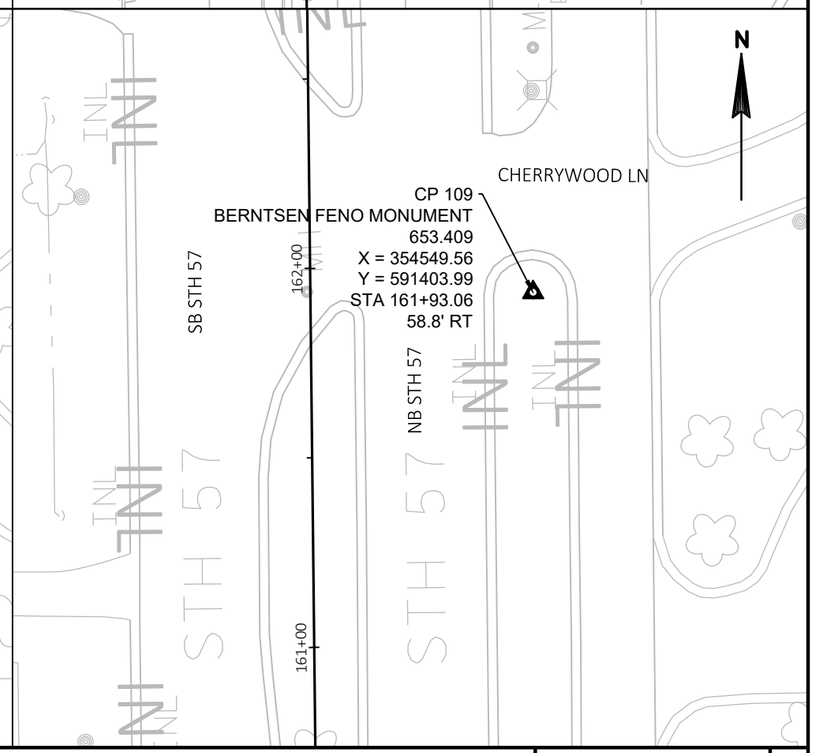












PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	ALIGNMENT LAYOUT	SHEET 695	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\027202_AD.DWG
LAYOUT NAME - 027221
PLOT DATE : 3/22/2021 12:55 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

N

BM 213
HYD N BOLT
656.523
X = 354816.00
Y = 591233.00
STA 164+61.34
109.3' RT

SB STH 57
NB STH 57
165+00
164+00
MH
TNL

N

COUNTY LINE RD

CP 110
BERNTSEN FENO MONUMENT
654.29
X = 355599.17
Y = 591198.10
STA 172+64.44
83.4' LT

173+00
172+00
SB STH 57
NB STH 57
SIGN
MH

N

HIAWATHA DR

SB STH 57
NB STH 57
178+00
177+00
BM 212
RR SPIKE W FACE PPOL
656.137
X = 356110.00
Y = 591181.00
STA 177+94.96
36.5' RT
SIGN
MH

2

N

CP 111
BERNTSEN FENO MONUMENT
655.650
X = 356952.37
Y = 590960.52
STA 186+59.30
47.9' RT

SB STH 57
NB STH 57
187+00
186+00
SIGN
MH

N

BM 211
RR SPIKE E FACE PPOL
655.768
X = 357554.00
Y = 590630.00
STA 193+42.07
23.0' LT

SB STH 57
NB STH 57
194+00
193+00

N

ELMDALE RD

SB STH 57
NB STH 57
198+00
197+00
196+00
CP 112
BERNTSEN FENO MONUMENT
652.957
X = 357921.34
Y = 590532.22
STA 197+18.55
29.6' RT
MH

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	ALIGNMENT LAYOUT	SHEET 696	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\027202_AD.DWG
LAYOUT NAME - 027222

PLOT DATE : 3/22/2021 12:56 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

SB STH 57
NB STH 57
209+00
210+00

BM 210
RR SPIKE E FACE PPOL
654.101
X = 359076.00
Y = 589983.00
STA 209+95.98
24.4' LT

N

WESTFIELD RD

SB STH 57
NB STH 57
212+00
213+00

CP 113
BERNTSEN FENO MONUMENT
656.890
X = 359328.28
Y = 589870.46
STA 212+72.19
29.0' LT

SIGN

N

SB STH 57
NB STH 57
213+00
214+00

BM 209
RR SPIKE SE FACE PPOL
659.234
X = 359449.00
Y = 589822.00
STA 214+02.61
25.7' LT

WESTFIELD RD

2

N

SB STH 57
NB STH 57
222+00
223+00

POST

CP 114
BERNTSEN FENO MONUMENT
657.411
X = 360201.58
Y = 589512.80
STA 222+15.05
32.5' RT

POST

N

SB STH 57
NB STH 57
224+00
225+00

POST

BM 208
TOP CENTER NORTH END RCP
660.643
X = 360566.00
Y = 589350.00
STA 226+13.64
53.3' RT

N

BM 205
RR SPIKE PPOL
660.887
X = 361489.00
Y = 588787.00
STA 236+91.67
29.5' LT

SB STH 57
NB STH 57
236+00
237+00

POST
POST

CP 117
BERNTSEN FENO MONUMENT
660.557
X = 361444.69
Y = 588808.93
STA 236+42.23
30.0' LT

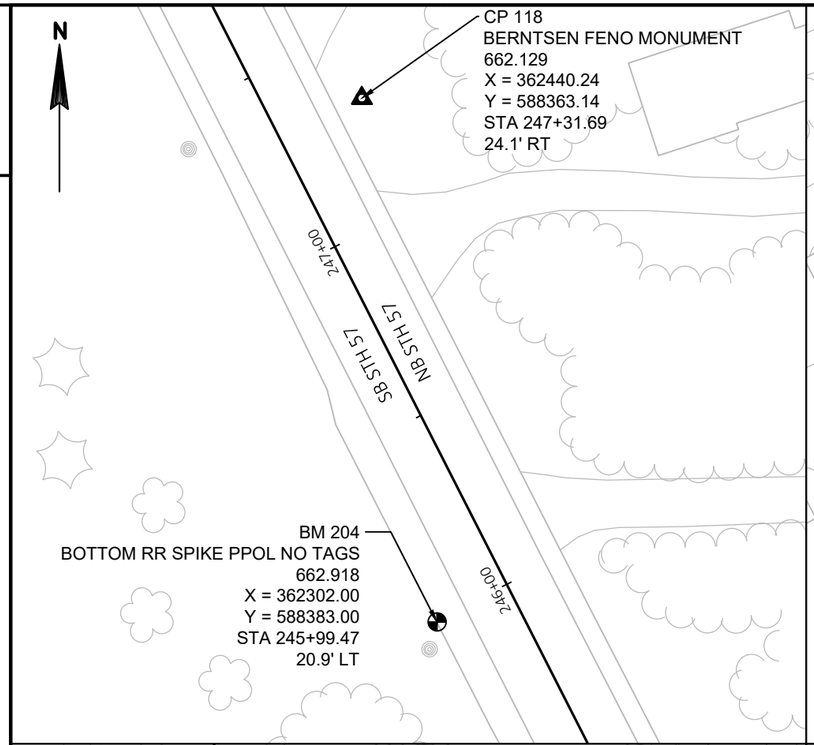
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POST

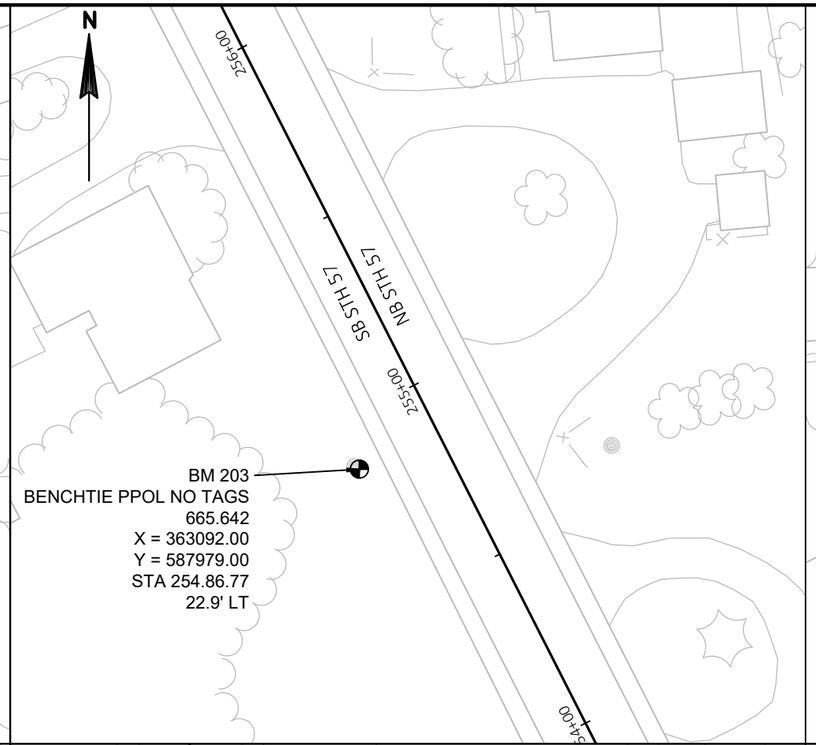
PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	ALIGNMENT LAYOUT	SHEET 697	E

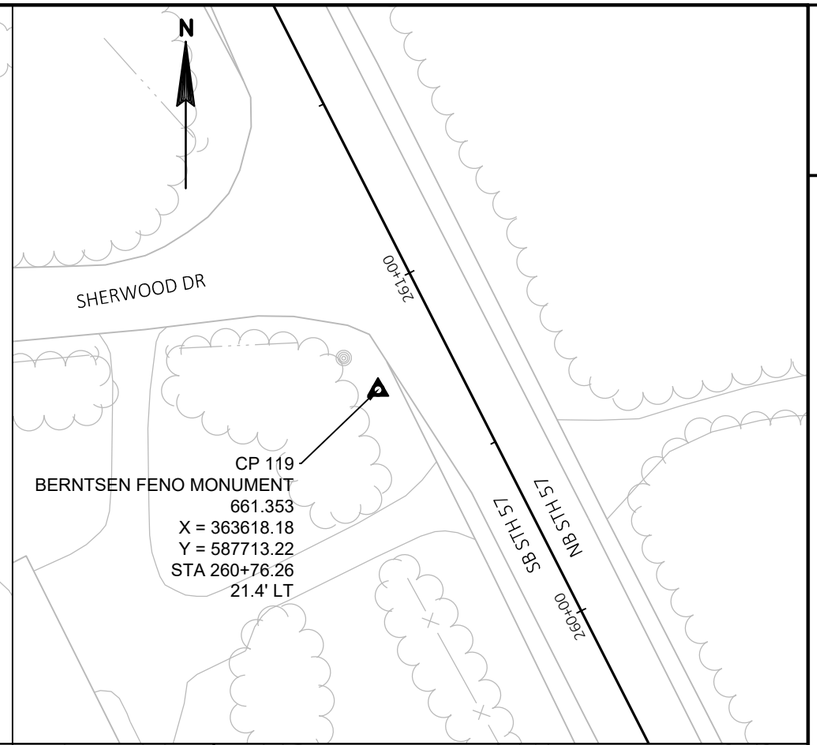
FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\027202_AD.DWG
LAYOUT NAME - 027223

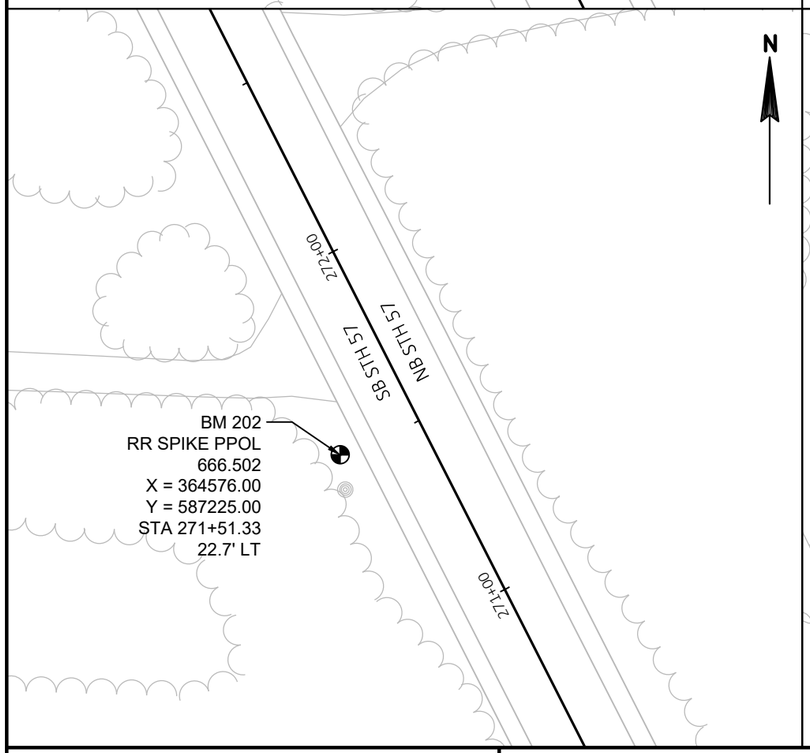
PLOT DATE : 3/22/2021 12:57 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

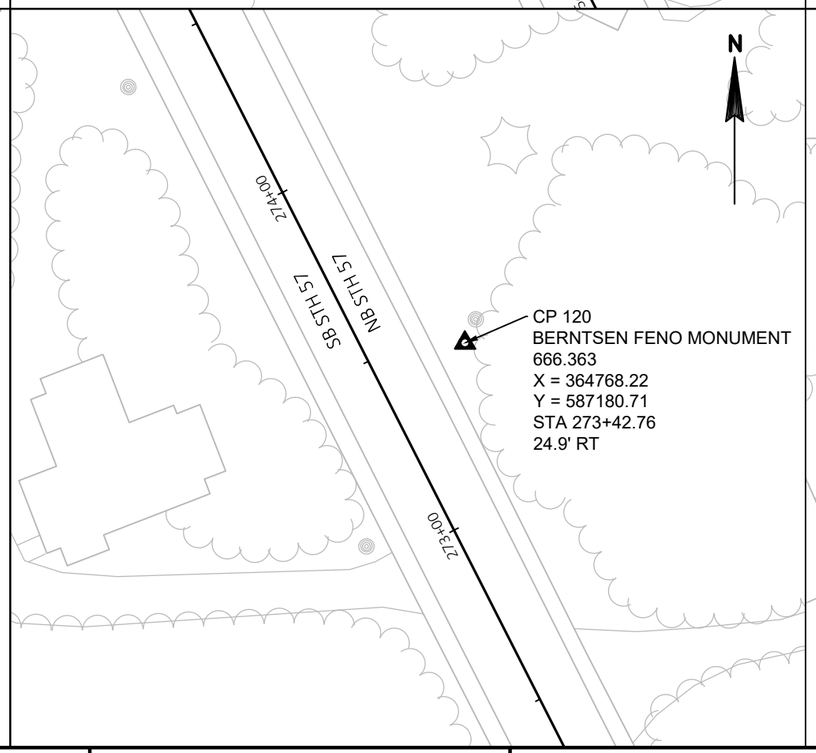
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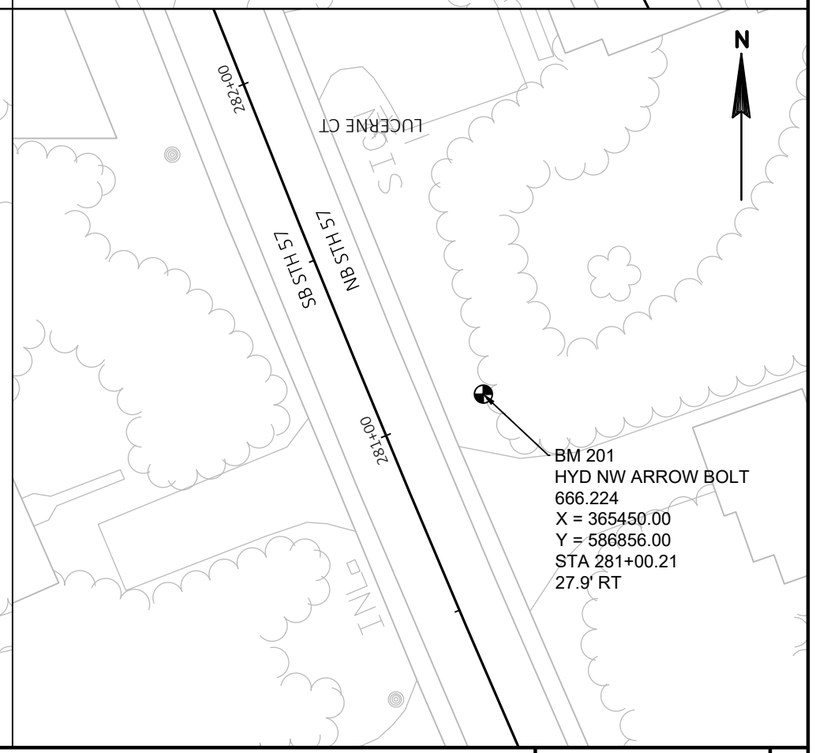












PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	ALIGNMENT LAYOUT	SHEET 698	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\027202_AD.DWG
LAYOUT NAME - 027224

PLOT DATE : 3/22/2021 12:58 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

N

284+00

LUCERNE CT

283+00

SB STH 57

NB STH 57

CP 121
BERNTSEN FENO MONUMENT
667.490
X = 365653.06
Y = 586711.36
STA 283+42.73
31.0' LT

N

BM 219
HYD ENE BOLT
669.964
X = 350643.00
Y = 591331.00
STA 491+36.60
100.1' LT

DEERWOOD DR

DEERWOOD DR

WB STH 100

491+00

492+00

EB STH 100

N

WB STH 100

504+00

505+00

EB STH 100

CP 103
BERNTSEN FENO MONUMENT
655.869
X = 350483.15
Y = 59267.14
STA 504+70.35
60.9' RT

2

N

WB STH 100

507+00

508+00

EB STH 100

BM 220
TFSM SOUTH BOLT
657.577
X = 350480.00
Y = 592979.00
STA 507+79.06
63.0' RT

KILDEER CT

N

CP 124
DISK STAMPED METROPOLITAN
SEWER COMMISSION
662.260
X = 350531.78
Y = 593613.63
STA 514+08.04
63.6' LT

WB STH 100

514+00

515+00

EB STH 100

N

WALLS

CP 116
BERNTSEN FENO MONUMENT
661.255
X = 361002.86
Y = 588687.98
STA 46+02.73
29.67' LT

WB DONGES BAY RD

46+00

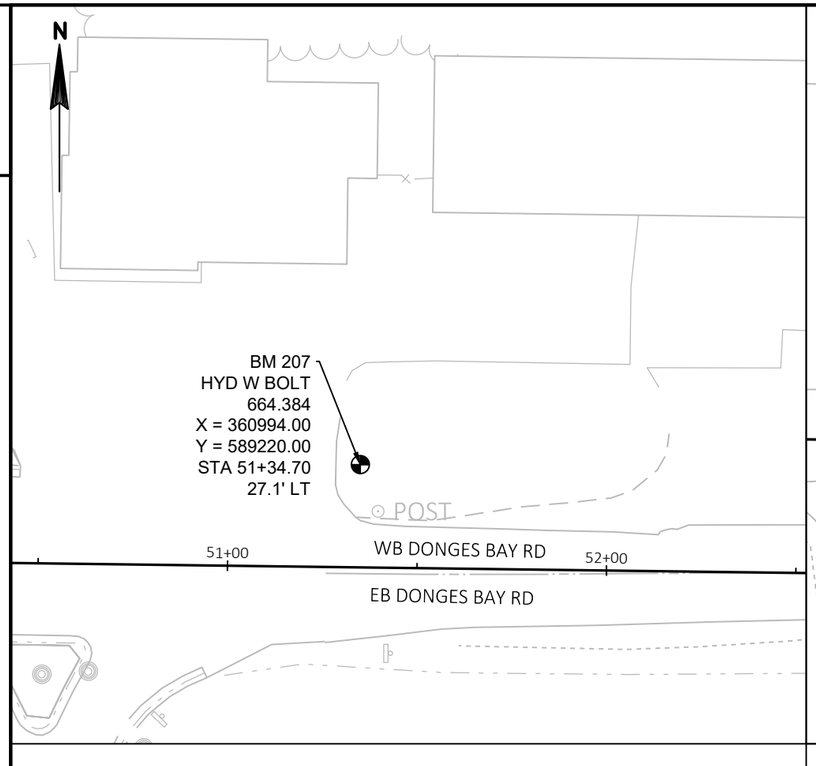
47+00

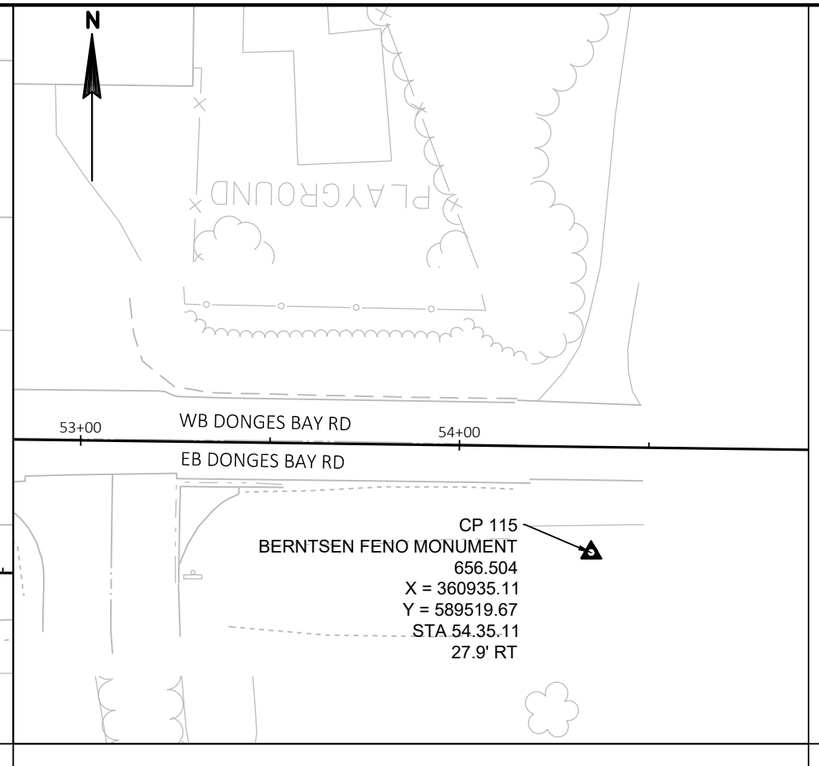
EB DONGES BAY RD

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	ALIGNMENT LAYOUT	SHEET 699	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\027202_AD.DWG
LAYOUT NAME - 027225

PLOT DATE : 3/22/2021 12:59 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:40 FT





2

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	ALIGNMENT LAYOUT	SHEET 700	E

2270-04-70

Line	Item	Item Description	Unit	Total	Qty
0002	108.4400	CPM Progress Schedule	EACH	1.000	1.000
0004	201.0105	Clearing	STA	34.000	34.000
0006	201.0120	Clearing	ID	60.000	60.000
0008	201.0205	Grubbing	STA	34.000	34.000
0010	201.0220	Grubbing	ID	60.000	60.000
0012	203.0200	Removing Old Structure (station) 01. 120+00	LS	1.000	1.000
0014	203.0210.S	Abatement of Asbestos Containing Material (structure) 01. B-40-153	LS	1.000	1.000
0016	204.0100	Removing Concrete Pavement	SY	58,865.000	58,865.000
0018	204.0109.S	Removing Concrete Surface Partial Depth	SF	322,878.000	322,878.000
0022	204.0115	Removing Asphaltic Surface Butt Joints	SY	671.000	671.000
0024	204.0120	Removing Asphaltic Surface Milling	SY	85,590.000	85,590.000
0026	204.0150	Removing Curb & Gutter	LF	7,524.000	7,524.000
0028	204.0155	Removing Concrete Sidewalk	SY	2,743.000	2,743.000
0030	204.0165	Removing Guardrail	LF	1,932.000	1,932.000
0032	204.0175	Removing Concrete Slope Paving	SY	485.000	485.000
0034	204.0185	Removing Masonry	CY	40.000	40.000
0036	204.0195	Removing Concrete Bases	EACH	63.000	63.000
0038	204.0210	Removing Manholes	EACH	10.000	10.000
0040	204.0220	Removing Inlets	EACH	89.000	89.000
0044	204.0245	Removing Storm Sewer (size) 01. 12-INCH	LF	3,525.000	3,525.000
0046	204.0245	Removing Storm Sewer (size) 02. 15-INCH	LF	278.000	278.000
0048	204.0245	Removing Storm Sewer (size) 03. 18-INCH	LF	1,323.000	1,323.000
0052	204.0245	Removing Storm Sewer (size) 04. 24-INCH	LF	521.000	521.000
0054	204.0245	Removing Storm Sewer (size) 05. 30-INCH	LF	226.000	226.000
0056	204.0245	Removing Storm Sewer (size) 06. 36-INCH	LF	416.000	416.000
0058	204.0245	Removing Storm Sewer (size) 07. 42-INCH	LF	1,057.000	1,057.000
0060	204.0245	Removing Storm Sewer (size) 08. 48-INCH	LF	292.000	292.000
0062	204.0250	Abandoning Manholes	EACH	1.000	1.000
0064	204.0280	Sealing Pipes	EACH	1.000	1.000
0066	204.0291.S	Abandoning Sewer	CY	150.000	150.000
0068	204.9060.S	Removing (item description) 61. Removing Communication Vault	EACH	2.000	2.000
0070	204.9105.S	Removing (item description) 61. Remove Traffic Signals STH 57 & STH 100	LS	1.000	1.000
0072	204.9105.S	Removing (item description) 62. Remove Traffic Signals STH 100 & N Kildeer Ct	LS	1.000	1.000
0074	204.9105.S	Removing (item description) 63. Remove Traffic Signals STH 57 & N Deerwood Dr	LS	1.000	1.000
0076	204.9105.S	Removing (item description) 64. Remove Traffic Signals STH 57 & W Schroeder Dr	LS	1.000	1.000
0078	204.9105.S	Removing (item description) 65. Remove Traffic Signals STH 57 & Donges Bay Rd	LS	1.000	1.000
0080	204.9105.S	Removing (item description) 66. Remove Loop Detector Wire and Lead-In Cable STH 57 & STH 100	LS	1.000	1.000
0082	204.9105.S	Removing (item description) 67. Remove Loop Detector Wire and Lead-In Cable STH 57 & N Deerwood Dr	LS	1.000	1.000
0084	204.9105.S	Removing (item description) 68. Remove Loop Detector Wire and Lead-In Cable STH 57 & W Schroeder Dr	LS	1.000	1.000
0086	204.9105.S	Removing (item description) 69. Remove Loop Detector Wire and Lead-In Cable STH 57 & Donges Bay Rd	LS	1.000	1.000
0088	204.9105.S	Removing (item description) 70. Remove Loop Detector Wire and Lead-In Cable STH 100 & N Kildeer Ct	LS	1.000	1.000
0090	205.0100	Excavation Common	CY	134,887.000	134,887.000
0092	205.0501.S	Excavation, Hauling, and Disposal of Petroleum Contaminated Soil	TON	1.700	1.700
0096	209.1500	Backfill Granular Grade 1	TON	10,238.000	10,238.000
0098	211.0100	Prepare Foundation for Asphaltic Paving (project) 01. 2270-04-70	LS	1.000	1.000

2270-04-70

Line	Item	Item Description	Unit	Total	Qty
0100	213.0100	Finishing Roadway (project) 01. 2270-04-70	EACH	1.000	1.000
0104	214.0100	Obliterating Old Road	STA	22.500	22.500
0106	305.0110	Base Aggregate Dense 3/4-Inch	TON	5,528.000	5,528.000
0108	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	34,003.000	34,003.000
0110	312.0110	Select Crushed Material	TON	63,644.000	63,644.000
0112	390.0103	Base Patching	SY	106.000	106.000
0114	390.0203	Base Patching Asphaltic	SY	864.000	864.000
0116	390.0303	Base Patching Concrete	SY	2,139.000	2,139.000
0120	405.0200	Coloring Concrete Custom 01. Scofield Rust Fields	CY	1,401.000	1,401.000
0122	405.0200	Coloring Concrete Custom 02. Scofield Schooner Beige	CY	363.000	363.000
0124	405.0200	Coloring Concrete Custom 03. Scofield Plum Chestnut	CY	213.000	213.000
0126	415.0080	Concrete Pavement 8-Inch	SY	54,710.000	54,710.000
0130	415.1080	Concrete Pavement HES 8-Inch	SY	5,439.000	5,439.000
0132	415.5110.S	Concrete Pavement Joint Layout 01. 2270-04-70	LS	1.000	1.000
0136	416.0160	Concrete Driveway 6-Inch	SY	140.000	140.000
0140	450.4000	HMA Cold Weather Paving	TON	2,446.000	2,446.000
0142	455.0605	Tack Coat	GAL	6,921.000	6,921.000
0144	460.2000	Incentive Density HMA Pavement	DOL	12,810.000	12,810.000
0146	460.6223	HMA Pavement 3 MT 58-28 S	TON	11,817.000	11,817.000
0148	460.6224	HMA Pavement 4 MT 58-28 S	TON	8,877.000	8,877.000
0150	465.0125	Asphaltic Surface Temporary	TON	3,608.000	3,608.000
0152	465.0310	Asphaltic Curb	LF	736.000	736.000
0154	495.1000.S	Cold patch	TON	20.000	20.000
0168	509.0200	Preparation Approaches	SY	303.000	303.000
0176	509.0600	Cleaning Approaches	SY	303.000	303.000
0186	509.2600	Concrete Masonry Overlay Approaches	CY	13.000	13.000
0194	520.8000	Concrete Collars for Pipe	EACH	12.000	12.000
0196	522.1015	Apron Endwalls for Culvert Pipe Reinforced Concrete 15-Inch	EACH	1.000	1.000
0198	522.1018	Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	EACH	1.000	1.000
0202	522.1036	Apron Endwalls for Culvert Pipe Reinforced Concrete 36-Inch	EACH	1.000	1.000
0204	522.1054	Apron Endwalls for Culvert Pipe Reinforced Concrete 54-Inch	EACH	1.000	1.000
0206	524.0612	Apron Endwalls for Culvert Pipe Salvaged 12-Inch	EACH	1.000	1.000
0208	531.2030	Drilling Shaft 30-Inch 01. S-40-3092	LF	17.000	17.000
0210	531.2030	Drilling Shaft 30-Inch 02. S-40-3093	LF	17.000	17.000
0218	531.5110	Foundation Single-Shaft Type MC-I (structure) 01. S-40-3092	EACH	1.000	1.000
0220	531.5110	Foundation Single-Shaft Type MC-I (structure) 02. S-40-3093	EACH	1.000	1.000
0228	532.5110	Monotube Cantilever Type I (structure) 01. S-40-3092	EACH	1.000	1.000
0230	532.5110	Monotube Cantilever Type I (structure) 02. S-40-3093	EACH	1.000	1.000
0238	601.0405	Concrete Curb & Gutter 18-Inch Type A	LF	81.000	81.000
0240	601.0407	Concrete Curb & Gutter 18-Inch Type D	LF	240.000	240.000
0242	601.0409	Concrete Curb & Gutter 30-Inch Type A	LF	25,126.000	25,126.000
0244	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	1,470.000	1,470.000
0246	601.0413	Concrete Curb & Gutter 6-Inch Sloped 30-Inch Type G	LF	621.000	621.000
0248	601.0557	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type D	LF	1,079.000	1,079.000
0252	601.0600	Concrete Curb Pedestrian	LF	349.000	349.000
0254	602.0410	Concrete Sidewalk 5-Inch	SF	87,124.000	87,124.000
0256	602.0505	Curb Ramp Detectable Warning Field Yellow	SF	784.000	784.000
0258	602.0605	Curb Ramp Detectable Warning Field Radial Yellow	SF	56.000	56.000
0260	603.8000	Concrete Barrier Temporary Precast Delivered	LF	1,105.000	1,105.000

2270-04-70

Line	Item	Item Description	Unit	Total	Qty
0262	603.8125	Concrete Barrier Temporary Precast Installed	LF	2,068.000	2,068.000
0264	606.0200	Riprap Medium	CY	15.000	15.000
0266	608.0312	Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	LF	40.000	40.000
0268	608.0315	Storm Sewer Pipe Reinforced Concrete Class III 15-Inch	LF	3,117.000	3,117.000
0270	608.0318	Storm Sewer Pipe Reinforced Concrete Class III 18-Inch	LF	600.000	600.000
0272	608.0324	Storm Sewer Pipe Reinforced Concrete Class III 24-Inch	LF	1,258.000	1,258.000
0274	608.0336	Storm Sewer Pipe Reinforced Concrete Class III 36-Inch	LF	1,468.000	1,468.000
0276	608.0342	Storm Sewer Pipe Reinforced Concrete Class III 42-Inch	LF	74.000	74.000
0278	608.0348	Storm Sewer Pipe Reinforced Concrete Class III 48-Inch	LF	14.000	14.000
0280	608.0354	Storm Sewer Pipe Reinforced Concrete Class III 54-Inch	LF	1,027.000	1,027.000
0282	608.0412	Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	LF	191.000	191.000
0284	608.0415	Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch	LF	1,395.000	1,395.000
0286	608.0418	Storm Sewer Pipe Reinforced Concrete Class IV 18-Inch	LF	58.000	58.000
0288	608.0424	Storm Sewer Pipe Reinforced Concrete Class IV 24-Inch	LF	1,671.000	1,671.000
0290	608.0430	Storm Sewer Pipe Reinforced Concrete Class IV 30-Inch	LF	247.000	247.000
0292	608.0436	Storm Sewer Pipe Reinforced Concrete Class IV 36-Inch	LF	22.000	22.000
0294	608.0448	Storm Sewer Pipe Reinforced Concrete Class IV 48-Inch	LF	106.000	106.000
0296	611.0430	Reconstructing Inlets	EACH	3.000	3.000
0300	611.0535	Manhole Covers Type J-Special	EACH	28.000	28.000
0302	611.0606	Inlet Covers Type B	EACH	4.000	4.000
0304	611.0612	Inlet Covers Type C	EACH	2.000	2.000
0306	611.0624	Inlet Covers Type H	EACH	132.000	132.000
0308	611.0639	Inlet Covers Type H-S	EACH	31.000	31.000
0310	611.0642	Inlet Covers Type MS	EACH	13.000	13.000
0312	611.0651	Inlet Covers Type S	EACH	5.000	5.000
0316	611.1004	Catch Basins 4-FT Diameter	EACH	96.000	96.000
0318	611.1005	Catch Basins 5-FT Diameter	EACH	12.000	12.000
0320	611.1006	Catch Basins 6-FT Diameter	EACH	7.000	7.000
0322	611.1230	Catch Basins 2x3-FT	EACH	5.000	5.000
0324	611.2004	Manholes 4-FT Diameter	EACH	1.000	1.000
0326	611.2005	Manholes 5-FT Diameter	EACH	12.000	12.000
0328	611.2006	Manholes 6-FT Diameter	EACH	11.000	11.000
0330	611.2007	Manholes 7-FT Diameter	EACH	7.000	7.000
0332	611.2008	Manholes 8-FT Diameter	EACH	1.000	1.000
0334	611.3003	Inlets 3-FT Diameter	EACH	3.000	3.000
0336	611.3004	Inlets 4-FT Diameter	EACH	28.000	28.000
0340	611.3901	Inlets Median 1 Grate	EACH	11.000	11.000
0342	611.3902	Inlets Median 2 Grate	EACH	1.000	1.000
0344	611.8110	Adjusting Manhole Covers	EACH	1.000	1.000
0346	611.8115	Adjusting Inlet Covers	EACH	14.000	14.000
0348	611.8120.S	Cover Plates Temporary	EACH	5.000	5.000
0350	611.9800.S	Pipe Grates	EACH	3.000	3.000
0352	614.0905	Crash Cushions Temporary	EACH	1.000	1.000
0354	614.0935	Salvaged Sand Barrels	EACH	25.000	25.000
0356	616.0700.S	Fence Safety	LF	250.000	250.000
0358	619.1000	Mobilization	EACH	0.830	0.830
0360	620.0300	Concrete Median Sloped Nose	SF	2,005.000	2,005.000
0362	624.0100	Water	MGAL	838.000	838.000
0364	625.0100	Topsoil	SY	23,816.000	23,816.000

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Line	Item	Item Description	Unit	Total	Qty
0366	625.0500	Salvaged Topsoil	SY	21,673.000	21,673.000
0368	627.0200	Mulching	SY	10,755.000	10,755.000
0370	628.1104	Erosion Bales	EACH	16.000	16.000
0372	628.1504	Silt Fence	LF	5,510.000	5,510.000
0374	628.1520	Silt Fence Maintenance	LF	7,200.000	7,200.000
0376	628.1550	Silt Screen	LF	30.000	30.000
0378	628.1905	Mobilizations Erosion Control	EACH	6.000	6.000
0380	628.1910	Mobilizations Emergency Erosion Control	EACH	11.000	11.000
0382	628.2006	Erosion Mat Urban Class I Type A	SY	18,342.000	18,342.000
0384	628.2008	Erosion Mat Urban Class I Type B	SY	3,893.000	3,893.000
0386	628.6505	Soil Stabilizer Type A	ACRE	2.000	2.000
0388	628.7005	Inlet Protection Type A	EACH	208.000	208.000
0390	628.7010	Inlet Protection Type B	EACH	33.000	33.000
0392	628.7015	Inlet Protection Type C	EACH	450.000	450.000
0394	628.7020	Inlet Protection Type D	EACH	36.000	36.000
0396	628.7504	Temporary Ditch Checks	LF	570.000	570.000
0398	628.7555	Culvert Pipe Checks	EACH	4.000	4.000
0400	628.7560	Tracking Pads	EACH	12.000	12.000
0402	628.7570	Rock Bags	EACH	20.000	20.000
0404	629.0205	Fertilizer Type A	CWT	28.000	28.000
0406	630.0140	Seeding Mixture No. 40	LB	892.000	892.000
0408	630.0200	Seeding Temporary	LB	150.000	150.000
0410	630.0500	Seed Water	MGAL	937.000	937.000
0412	631.0300	Sod Water	MGAL	99.000	99.000
0414	631.1000	Sod Lawn	SY	8,181.000	8,181.000
0416	632.0101	Trees (species) (size) (root) 01. Trees, Carpinus Caroliniana 'JN Upright'	EACH	13.000	13.000
0418	632.0101	Trees (species) (size) (root) 02. Trees, Syringa Reticulata 'Ivory Silk'	EACH	18.000	18.000
0420	632.0101	Trees (species) (size) (root) 03. Trees, Ginkgo Biloba 'Princeton Sentry'	EACH	9.000	9.000
0422	632.0101	Trees (species) (size) (root) 04. Trees, Malus Royal Raindrops	EACH	17.000	17.000
0424	632.0101	Trees (species) (size) (root) 05. Trees, Gleditsia Triacanthos 'Shademaster'	EACH	4.000	4.000
0426	632.0101	Trees (species) (size) (root) 06. Trees, Crataegus Viridis ' Winter King'	EACH	18.000	18.000
0428	632.0101	Trees (species) (size) (root) 08. Trees, Picea Glauca Var Densata	EACH	9.000	9.000
0430	632.0101	Trees (species) (size) (root) 09. Malus 'Red Barron' B&B, 2-INCH CAL	EACH	3.000	3.000
0432	632.0101	Trees (species) (size) (root) 10. Amelachier X Grandiflora 'Autumn Brilliance' B&B, 7-FT HT	EACH	3.000	3.000
0434	632.0101	Trees (species) (size) (root) 11. Cratageus Laevigata 'Crimson Cloud' B&B, 2-INCH CAL	EACH	3.000	3.000
0436	632.0201	Shrubs (species) (size) (root) 01. Shrubs, Diervilla Lonicera 'Dwarf Bush'	EACH	144.000	144.000
0438	632.0201	Shrubs (species) (size) (root) 02. Shrubs, Juniperus Sabina 'Buffalo'	EACH	82.000	82.000
0440	632.0201	Shrubs (species) (size) (root) 03. Shrubs, Rosa Rugosa 'Dwarf Pavement'	EACH	74.000	74.000
0442	632.0201	Shrubs (species) (size) (root) 04. Shrubs, Aronia Melanocarpa 'Morton'	EACH	56.000	56.000
0444	633.5200	Markers Culvert End	EACH	4.000	4.000
0446	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	232.000	232.000
0448	634.0622	Posts Wood 4x6-Inch X 22-FT	EACH	3.000	3.000
0450	634.0814	Posts Tubular Steel 2x2-Inch X 14-FT	EACH	28.000	28.000
0452	637.2210	Signs Type II Reflective H	SF	2,169.315	2,169.315
0454	637.2215	Signs Type II Reflective H Folding	SF	313.320	313.320
0456	637.2230	Signs Type II Reflective F	SF	465.530	465.530
0458	638.2102	Moving Signs Type II	EACH	18.000	18.000

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Line	Item	Item Description	Unit	Total	Qty
0460	638.2602	Removing Signs Type II	EACH	192.000	192.000
0462	638.3000	Removing Small Sign Supports	EACH	165.000	165.000
0464	643.0300	Traffic Control Drums	DAY	349,317.000	349,317.000
0466	643.0410	Traffic Control Barricades Type II	DAY	2,591.000	2,591.000
0468	643.0420	Traffic Control Barricades Type III	DAY	65,688.000	65,688.000
0470	643.0500	Traffic Control Flexible Tubular Marker Posts	EACH	1,007.000	1,007.000
0472	643.0600	Traffic Control Flexible Tubular Marker Bases	EACH	859.000	859.000
0474	643.0705	Traffic Control Warning Lights Type A	DAY	131,376.000	131,376.000
0476	643.0715	Traffic Control Warning Lights Type C	DAY	68,531.000	68,531.000
0478	643.0800	Traffic Control Arrow Boards	DAY	1,638.000	1,638.000
0480	643.0900	Traffic Control Signs	DAY	174,243.000	174,243.000
0482	643.0920	Traffic Control Covering Signs Type II	EACH	27.000	27.000
0484	643.1000	Traffic Control Signs Fixed Message	SF	574.000	574.000
0486	643.1050	Traffic Control Signs PCMS	DAY	465.000	465.000
0488	643.1070	Traffic Control Cones 42-Inch	DAY	22,153.000	22,153.000
0490	643.4100.S	Traffic Control Interim Lane Closure	EACH	112.000	112.000
0492	643.5000	Traffic Control	EACH	0.890	0.890
0494	644.1410	Temporary Pedestrian Surface Asphalt	SF	1,005.000	1,005.000
0496	644.1430	Temporary Pedestrian Surface Plate	SF	1,685.000	1,685.000
0498	644.1601	Temporary Pedestrian Curb Ramp	DAY	182.000	182.000
0500	644.1810	Temporary Pedestrian Barricade	LF	2,335.000	2,335.000
0504	645.0130	Geotextile Type R	SY	30.000	30.000
0506	646.1020	Marking Line Epoxy 4-Inch	LF	43,393.000	43,393.000
0508	646.1040	Marking Line Grooved Wet Ref Epoxy 4-Inch	LF	15,837.000	15,837.000
0510	646.1545	Marking Line Grooved Wet Ref Contrast Epoxy 4-Inch	LF	4,655.000	4,655.000
0512	646.3020	Marking Line Epoxy 8-Inch	LF	1,961.000	1,961.000
0514	646.3545	Marking Line Grooved Wet Ref Contrast Epoxy 8-Inch	LF	6,749.000	6,749.000
0516	646.4520	Marking Line Same Day Epoxy 4-Inch	LF	19,972.000	19,972.000
0518	646.4620	Marking Line Same Day Epoxy 8-Inch	LF	2,091.000	2,091.000
0520	646.5005	Marking Arrow Paint	EACH	2.000	2.000
0522	646.5020	Marking Arrow Epoxy	EACH	69.000	69.000
0524	646.5105	Marking Word Paint	EACH	2.000	2.000
0526	646.5120	Marking Word Epoxy	EACH	29.000	29.000
0528	646.5320	Marking Railroad Crossings Epoxy	EACH	6.000	6.000
0530	646.6120	Marking Stop Line Epoxy 18-Inch	LF	1,034.000	1,034.000
0534	646.7120	Marking Diagonal Epoxy 12-Inch	LF	588.000	588.000
0536	646.7420	Marking Crosswalk Epoxy Transverse Line 6-Inch	LF	3,616.000	3,616.000
0538	646.7520	Marking Crosswalk Epoxy Block Style 24-Inch	LF	104.000	104.000
0540	646.8120	Marking Curb Epoxy	LF	3,014.000	3,014.000
0542	646.8220	Marking Island Nose Epoxy	EACH	25.000	25.000
0544	646.9000	Marking Removal Line 4-Inch	LF	14,036.000	14,036.000
0546	646.9100	Marking Removal Line 8-Inch	LF	400.000	400.000
0548	646.9300	Marking Removal Special Marking	EACH	7.000	7.000
0550	648.0100	Locating No-Passing Zones	MI	1.940	1.940
0552	649.0105	Temporary Marking Line Paint 4-Inch	LF	39,023.000	39,023.000
0554	649.0150	Temporary Marking Line Removable Tape 4-Inch	LF	111,002.000	111,002.000
0556	649.0205	Temporary Marking Line Paint 8-Inch	LF	1,804.000	1,804.000
0558	649.0250	Temporary Marking Line Removable Tape 8-Inch	LF	5,621.000	5,621.000
0560	649.0650	Temporary Marking Word Removable Tape	EACH	8.000	8.000

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Line	Item	Item Description	Unit	Total	Qty
0562	649.0760	Temporary Marking Raised Pavement Marker Type I	EACH	423.000	423.000
0564	649.0805	Temporary Marking Stop Line Paint 18-Inch	LF	144.000	144.000
0566	649.0850	Temporary Marking Stop Line Removable Tape 18-Inch	LF	792.000	792.000
0568	649.0960	Temporary Marking Removable Mask Out Tape 6-Inch	LF	2,343.000	2,343.000
0570	650.4000	Construction Staking Storm Sewer	EACH	216.000	216.000
0572	650.4500	Construction Staking Subgrade	LF	13,313.000	13,313.000
0574	650.7000	Construction Staking Concrete Pavement	LF	11,544.000	11,544.000
0576	650.8000	Construction Staking Resurfacing Reference	LF	14,499.000	14,499.000
0578	650.8500	Construction Staking Electrical Installations (project) 01. 2270-04-70	LS	1.000	1.000
0582	650.9000	Construction Staking Curb Ramps	EACH	75.000	75.000
0584	650.9910	Construction Staking Supplemental Control (project) 01. 2270-04-70	LS	1.000	1.000
0588	650.9920	Construction Staking Slope Stakes	LF	13,313.000	13,313.000
0590	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	9,822.000	9,822.000
0592	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	6,109.000	6,109.000
0594	652.0605	Conduit Special 2-Inch	LF	156.000	156.000
0596	652.0615	Conduit Special 3-Inch	LF	1,970.000	1,970.000
0598	652.0800	Conduit Loop Detector	LF	11,992.000	11,992.000
0600	653.0135	Pull Boxes Steel 24x36-Inch	EACH	66.000	66.000
0602	653.0140	Pull Boxes Steel 24x42-Inch	EACH	93.000	93.000
0604	653.0905	Removing Pull Boxes	EACH	87.000	87.000
0606	654.0101	Concrete Bases Type 1	EACH	39.000	39.000
0608	654.0102	Concrete Bases Type 2	EACH	11.000	11.000
0610	654.0105	Concrete Bases Type 5	EACH	27.000	27.000
0612	654.0110	Concrete Bases Type 10	EACH	10.000	10.000
0614	654.0120	Concrete Bases Type 10-Special	EACH	15.000	15.000
0616	654.0217	Concrete Control Cabinet Bases Type 9 Special	EACH	4.000	4.000
0620	655.0230	Cable Traffic Signal 5-14 AWG	LF	4,504.000	4,504.000
0622	655.0240	Cable Traffic Signal 7-14 AWG	LF	9,906.000	9,906.000
0624	655.0260	Cable Traffic Signal 12-14 AWG	LF	13,371.000	13,371.000
0626	655.0270	Cable Traffic Signal 15-14 AWG	LF	550.000	550.000
0628	655.0320	Cable Type UF 2-10 AWG Grounded	LF	9,943.000	9,943.000
0630	655.0510	Electrical Wire Traffic Signals 12 AWG	LF	8,111.000	8,111.000
0632	655.0515	Electrical Wire Traffic Signals 10 AWG	LF	15,803.000	15,803.000
0634	655.0610	Electrical Wire Lighting 12 AWG	LF	8,613.000	8,613.000
0638	655.0700	Loop Detector Lead In Cable	LF	44,400.000	44,400.000
0640	655.0800	Loop Detector Wire	LF	46,196.000	46,196.000
0642	655.0900	Traffic Signal EVP Detector Cable	LF	7,644.000	7,644.000
0644	656.0200	Electrical Service Meter Breaker Pedestal (location) 61. STH 100 & N Deerbrook Trl	LS	1.000	1.000
0646	656.0200	Electrical Service Meter Breaker Pedestal (location) 62. STH 57 & STH 100	LS	1.000	1.000
0648	656.0200	Electrical Service Meter Breaker Pedestal (location) 63. STH 57 & N Deerwood Dr	LS	1.000	1.000
0650	656.0200	Electrical Service Meter Breaker Pedestal (location) 64. STH 57 & W Schroeder Dr	LS	1.000	1.000
0652	656.0200	Electrical Service Meter Breaker Pedestal (location) 65. STH 57 & Donges Bay Rd	LS	1.000	1.000
0656	657.0100	Pedestal Bases	EACH	2.000	2.000
0658	657.0255	Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	EACH	2.000	2.000
0660	657.0305	Poles Type 2	EACH	1.000	1.000
0662	657.0322	Poles Type 5-Aluminum	EACH	1.000	1.000
0664	657.0420	Traffic Signal Standards Aluminum 13-FT	EACH	2.000	2.000
0666	657.0610	Luminaire Arms Single Member 4 1/2-Inch Clamp 6-FT	EACH	1.000	1.000
0668	658.0173	Traffic Signal Face 3S 12-Inch	EACH	12.000	12.000

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Line	Item	Item Description	Unit	Total	Qty
0670	658.0174	Traffic Signal Face 4S 12-Inch	EACH	4.000	4.000
0672	658.5069	Signal Mounting Hardware (location) 61. STH 100 & N Deerbrook Trl	LS	1.000	1.000
0674	658.5069	Signal Mounting Hardware (location) 62. STH 57 & STH 100	LS	1.000	1.000
0676	658.5069	Signal Mounting Hardware (location) 63. STH 100 & N Kildeer Cr	LS	1.000	1.000
0678	658.5069	Signal Mounting Hardware (location) 64. STH 57 & N Deerwood Dr	LS	1.000	1.000
0680	658.5069	Signal Mounting Hardware (location) 65. STH 57 & W Schroeder Dr	LS	1.000	1.000
0682	658.5069	Signal Mounting Hardware (location) 66. STH 57 & Donges Bay Road	LS	1.000	1.000
0684	659.1125	Luminaires Utility LED C	EACH	4.000	4.000
0688	661.0200	Temporary Traffic Signals for Intersections (location) 61. STH 57 SB Ramps & STH 100	LS	1.000	1.000
0690	661.0200	Temporary Traffic Signals for Intersections (location) 62. STH 57 & STH 100	LS	1.000	1.000
0692	661.0200	Temporary Traffic Signals for Intersections (location) 63. STH 57 & N Deerwood Dr	LS	1.000	1.000
0694	661.0200	Temporary Traffic Signals for Intersections (location) 64. STH 57 & W Schroeder Dr	LS	1.000	1.000
0696	661.0300	Generators	DAY	4.000	4.000
0698	670.0100	Field System Integrator 61. STH 100 & STH 57 Traffic Signals	LS	1.000	1.000
0700	670.0200	ITS Documentation 61. STH 100 & STH 57 Traffic Signals	LS	1.000	1.000
0702	671.0122	Conduit HDPE 2-Duct 2-Inch	LF	5,174.000	5,174.000
0704	671.0222	Conduit HDPE Directional Bore 2-Duct 2-Inch	LF	290.000	290.000
0706	673.0105	Communication Vault Type 1	EACH	6.000	6.000
0708	674.0300	Remove Cable	LF	3,658.000	3,658.000
0710	677.0200	Install Camera Assembly	EACH	5.000	5.000
0712	678.0036	Install Fiber Optic Cable Outdoor Plant 36-CT	LF	8,398.000	8,398.000
0714	678.0200	Fiber Optic Splice Enclosure	EACH	4.000	4.000
0716	678.0300	Fiber Optic Splice	EACH	92.000	92.000
0718	678.0500	Communication System Testing 61. STH 100 & STH 57 Traffic Signals	LS	1.000	1.000
0720	678.0600	Install Ethernet Switches	EACH	4.000	4.000
0722	678.0700	Install Wireless Antennas	EACH	1.000	1.000
0724	690.0150	Sawing Asphalt	LF	3,856.000	3,856.000
0726	690.0250	Sawing Concrete	LF	13,083.000	13,083.000
0728	715.0415	Incentive Strength Concrete Pavement	DOL	18,045.000	18,045.000
0732	715.0710	Optimized Aggregate Gradation Incentive	DOL	51,917.000	51,917.000
0734	999.2000.S	Installing and Maintaining Bird Deterrent System 01. B-40-504	EACH	1.000	1.000
0736	999.2000.S	Installing and Maintaining Bird Deterrent System 02. B-40-505	EACH	1.000	1.000
0738	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	6,400.000	6,400.000
0740	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	17,280.000	17,280.000
0742	SPV.0035	Special 01. Backfill Slurry	CY	10.000	10.000
0744	SPV.0035	Special 40. Shredded Hardwood Bark Mulch	CY	290.000	290.000
0746	SPV.0060	Special 01. Manholes 9-FT Special	EACH	1.000	1.000
0748	SPV.0060	Special 02. Manholes 10-FT Special	EACH	2.000	2.000
0750	SPV.0060	Special 03. Pipe Connection to Existing Structure	EACH	6.000	6.000
0752	SPV.0060	Special 05. Field Facilities Office Space	EACH	1.000	1.000
0754	SPV.0060	Special 06. Curb Ramp Grading, Shaping, and Finishing	EACH	17.000	17.000
0756	SPV.0060	Special 10. Sanitary Sewer Reinforced Concrete Collar 12-INCH	EACH	2.000	2.000
0758	SPV.0060	Special 11. Sanitary Sewer Reinforced Concrete Collar 21-INCH	EACH	2.000	2.000
0760	SPV.0060	Special 12. Reconstructing Village of Brown Deer Sanitary Manholes	EACH	1.000	1.000
0762	SPV.0060	Special 13. Adjusting Village of Brown Deer Sanitary Manhole Covers	EACH	3.000	3.000
0764	SPV.0060	Special 14. Adjusting Village of Brown Deer Water Boxes	EACH	13.000	13.000
0766	SPV.0060	Special 15. Adjusting City of Mequon Sanitary Manhole Covers	EACH	1.000	1.000
0768	SPV.0060	Special 16. Adjusting Mequon Water Utility Water Boxes	EACH	3.000	3.000
0774	SPV.0060	Special 19. Utility Line Opening (ULO)	EACH	12.000	12.000

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Line	Item	Item Description	Unit	Total	Qty
0782	SPV.0060	Special 40. Masonry Pillar and Wall	EACH	1.000	1.000
0784	SPV.0060	Special 41. Perennials, Geranium X Cantabrigiense 'Karmina'	EACH	200.000	200.000
0786	SPV.0060	Special 42. Perennials, Panicum Virgatum 'Heavy Metal'	EACH	106.000	106.000
0788	SPV.0060	Special 43. Perennials, Nepeta 'Kit Cat'	EACH	156.000	156.000
0790	SPV.0060	Special 44. Perennials, Schizachyrium Scoparium 'Little Bluestem Grass'	EACH	215.000	215.000
0792	SPV.0060	Special 45. Perennials, Calamintha Nepeta 'Montrose White'	EACH	94.000	94.000
0794	SPV.0060	Special 46. Perennials, Sporobulus Heterolepsis 'Prairie Dropseed'	EACH	144.000	144.000
0796	SPV.0060	Special 47. Remove, Stockpile and Reinstall Municipal Monument Sign	EACH	1.000	1.000
0798	SPV.0060	Special 48. Select Stone Material 3'X4'X3'	EACH	219.000	219.000
0800	SPV.0060	Special 49. Select Stone Material 5'X3'X5'	EACH	10.000	10.000
0802	SPV.0060	Special 50. Artistic Panels	EACH	10.000	10.000
0804	SPV.0060	Special 51. Wayfinding Sign	EACH	1.000	1.000
0806	SPV.0060	Special 61. Concrete Control Cabinet Bases Type 9 Special Super P	EACH	1.000	1.000
0808	SPV.0060	Special 62. Pedestal Bases Black	EACH	43.000	43.000
0810	SPV.0060	Special 63. Transformer Bases Breakaway 11 1/2-Inch Bolt Circle Black	EACH	38.000	38.000
0812	SPV.0060	Special 64. Poles Type 3 Black	EACH	9.000	9.000
0814	SPV.0060	Special 65. Poles Type 5-Aluminum Black	EACH	29.000	29.000
0816	SPV.0060	Special 66. Traffic Signal Standards Aluminum 3.5-FT Black	EACH	1.000	1.000
0818	SPV.0060	Special 67. Traffic Signal Standards Aluminum13-FT Black	EACH	16.000	16.000
0820	SPV.0060	Special 68. Traffic Signal Standards Aluminum 15-FT Black	EACH	17.000	17.000
0822	SPV.0060	Special 69. Traffic Signal Standards Aluminum 10-FT Black	EACH	9.000	9.000
0824	SPV.0060	Special 70. Luminaire Arms Single Member 4-INCH Clamp 6-FT Black	EACH	14.000	14.000
0826	SPV.0060	Special 71. Luminaire Arms Single Member 4 1/2-INCH Clamp 6-FT Black	EACH	34.000	34.000
0828	SPV.0060	Special 72. Install Poles Type 9	EACH	3.000	3.000
0830	SPV.0060	Special 73. Install Poles Type 9-Special	EACH	9.000	9.000
0832	SPV.0060	Special 74. Install Poles Type 10	EACH	8.000	8.000
0834	SPV.0060	Special 75. Install Poles Type 10-Special	EACH	6.000	6.000
0836	SPV.0060	Special 76. Install Monotube Arms 20-FT	EACH	1.000	1.000
0838	SPV.0060	Special 77. Install Monotube Arms 25-FT	EACH	4.000	4.000
0840	SPV.0060	Special 78. Install Monotube Arms 30-FT	EACH	6.000	6.000
0842	SPV.0060	Special 79. Install Monotube Arms 35-FT Special	EACH	3.000	3.000
0844	SPV.0060	Special 80. Install Monotube Arms 40-FT Special	EACH	3.000	3.000
0846	SPV.0060	Special 81. Install Monotube Arms 45-FT Special	EACH	9.000	9.000
0848	SPV.0060	Special 82. Install Luminaire Arms Steel 15-FT	EACH	20.000	20.000
0850	SPV.0060	Special 83. Traffic Signal Face 3S 12-INCH Black	EACH	92.000	92.000
0852	SPV.0060	Special 84. Traffic Signal Face 4S 12-INCH Black	EACH	34.000	34.000
0854	SPV.0060	Special 85. Pedestrian Signal Face 16-INCH Black	EACH	42.000	42.000
0856	SPV.0060	Special 86. Pedestrian Push Button Black	EACH	51.000	51.000
0858	SPV.0060	Special 87. Luminaires Utility LED C Black	EACH	65.000	65.000
0862	SPV.0060	Special 89. Install Monotube Arms 45-FT	EACH	2.000	2.000
0864	SPV.0060	Special 90. Install Poles Type 12	EACH	2.000	2.000
0866	SPV.0085	Special 40. No Mow Fescue Mix	LB	29.000	29.000
0868	SPV.0090	Special 01. Heavy Duty Silt Fence	LF	1,690.000	1,690.000
0870	SPV.0090	Special 10. Sanitary Sewer Pipe Reinforced Concrete Class II 12-INCH	LF	63.000	63.000
0872	SPV.0090	Special 11. Sanitary Sewer Pipe Reinforced Concrete Class II 21-INCH	LF	101.000	101.000
0874	SPV.0090	Special 12. Sanitary Sewer Force Main Pipe PVC 8-INCH	LF	80.000	80.000
0876	SPV.0090	Special 40. Steel Edging Material	LF	1,430.000	1,430.000
0878	SPV.0090	Special 41. Compacted Gravel Leveling Course	LF	20.000	20.000
0880	SPV.0105	Special 01. Control of Water Storm Sewer	LS	1.000	1.000

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Line	Item	Item Description	Unit	Total	Qty
0882	SPV.0105	Special 10. Removing Sanitary Sewer Inside Drop	LS	1.000	1.000
0884	SPV.0105	Special 11. Sanitary Sewer Inside Drop	LS	1.000	1.000
0886	SPV.0105	Special 12. Temporary Sanitary Sewer Bypass	LS	1.000	1.000
0888	SPV.0105	Special 61. Trnspt & Install State Furn Traffic Signal Cabinet STH 100 & N Deerbrook Trl	LS	1.000	1.000
0890	SPV.0105	Special 62. Trnspt & Install State Furn Traffic Signal Cabinet STH 57 & STH 100	LS	1.000	1.000
0892	SPV.0105	Special 63. Trnspt & Install State Furn Traffic Signal Cabinet STH 57 & N Deerwood Dr	LS	1.000	1.000
0894	SPV.0105	Special 64. Trnspt & Install State Furn Traffic Signal Cabinet STH 57 & W Schroeder Dr	LS	1.000	1.000
0896	SPV.0105	Special 65. Trnspt & Install State Furn Traffic Signal Cabinet STH 57 & Donges Bay Rd	LS	1.000	1.000
0898	SPV.0105	Special 66. Trnspt Traffic Signals & Inter Lighting Materials STH 100 & N Deerbrook Trl	LS	1.000	1.000
0900	SPV.0105	Special 67. Trnspt Traffic Signals & Inter Lighting Materials STH 57 & STH 100	LS	1.000	1.000
0902	SPV.0105	Special 68. Trnspt Traffic Signals & Inter Lighting Materials STH 100 & N Kildeer Ct	LS	1.000	1.000
0904	SPV.0105	Special 69. Trnspt Traffic Signals & Inter Lighting Materials STH 57 & N Deerwood Dr	LS	1.000	1.000
0906	SPV.0105	Special 70. Trnspt Traffic Signals & Inter Lighting Materials STH 57 & W Schroeder Dr	LS	1.000	1.000
0908	SPV.0105	Special 71. Trnspt Traffic Signals & Inter Lighting Materials STH 57 & Donges Bay Rd	LS	1.000	1.000
0910	SPV.0105	Special 72. Trnspt & Install State Furn EVP Heads STH 100 & N Deerbrook Trl	LS	1.000	1.000
0912	SPV.0105	Special 73. Trnspt & Install State Furn EVP Heads STH 57 & STH 100	LS	1.000	1.000
0914	SPV.0105	Special 74. Trnspt & Install State Furn EVP Heads STH 100 & N Kildeer Ct	LS	1.000	1.000
0916	SPV.0105	Special 75. Trnspt & Install State Furn EVP Heads STH 57 & N Deerwood Dr	LS	1.000	1.000
0918	SPV.0105	Special 76. Trnspt & Install State Furn EVP Heads STH 57 & W Schroeder Dr	LS	1.000	1.000
0920	SPV.0105	Special 77. Trnspt & Install State Furn EVP Heads STH 57 & Donges Bay Rd	LS	1.000	1.000
0922	SPV.0105	Special 79. Trnspt and Install S-F FO Cable Pigtail 8-CT STH 100 & N Deerbrook Trl	LS	1.000	1.000
0924	SPV.0105	Special 80. Trnspt and Install S-F FO Cable Pigtail 8-CT STH 57 & STH 100	LS	1.000	1.000
0926	SPV.0105	Special 81. Trnspt and Install S-F FO Cable Pigtail 8-CT STH 57 & N Deerwood Dr	LS	1.000	1.000
0928	SPV.0105	Special 82. Trnspt and Install S-F FO Cable Pigtail 8-CT STH 57 & W Schroeder Dr	LS	1.000	1.000
0930	SPV.0105	Special 83. Trnspt and Install S-F Radar Detection System STH 100 & N Deerbrook Trl	LS	1.000	1.000
0932	SPV.0105	Special 84. Temporary EVP System STH 57 SB Ramps & STH 100	LS	1.000	1.000
0934	SPV.0105	Special 85. Temporary EVP System STH 57 & STH 100	LS	1.000	1.000
0936	SPV.0105	Special 86. Temporary EVP System STH 57 & N Deerwood Dr	LS	1.000	1.000
0938	SPV.0105	Special 87. Temporary EVP System STH 57 & W Schroeder Dr	LS	1.000	1.000
0940	SPV.0105	Special 88. Covering Traffic Signal Equipment STH 100 & N Deerbrook Trl	LS	1.000	1.000
0942	SPV.0165	Special 01. Construction Staking Sidewalk	SF	57,278.000	57,278.000
0946	SPV.0195	Special 01. Excavation, Hauling, and Disposal of Creosote Contaminated Soil	TON	3,587.000	3,587.000
0948	SPV.0195	Special 02. Joint and Crack Repair	TON	575.000	575.000

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

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CLEARING AND GRUBBING

ROADWAY	STATION	TO	STATION	OFFSET	201.0120 CLEARING ID	201.0220 GRUBBING ID	201.0105 CLEARING STA	201.0205 GRUBBING STA	COMMENTS
STH 57 NB	118+00		120+00	--	--	--	2	2	--
	121+00		123+00	--	--	--	2	2	--
	231+00		233+00	--	--	--	2	2	--
	234+82		234+82	--	60	60	--	--	--
STH 57 SB	106+00		108+00	--	--	--	2	2	--
	111+00		115+00	--	--	--	4	4	--
	118+00		120+00	--	--	--	2	2	--
	121+00		125+00	--	--	--	4	4	--
	134+00		137+00		--	--	3	3	--
STH 100 EB	476+00		480+00	--	--	--	4	4	Median Only
	494+00		496+00	--	--	--	2	2	Median Only
STH 100 WB	483+00		486+00	--	--	--	3	3	--
	487+00		491+00	--	--	--	4	4	--
			PROJECT TOTALS		60	60	34	34	

REMOVING GUARDRAIL

STAGE	ROADWAY	STATION	TO	STATION	OFFSET	204.0165 REMOVING GUARDRAIL LF
2	STH 57	116+75		119+91	43' RT	317
		116+75		119+91	44' LT	317
		121+72		124+86	50' LT	311
		121+69		124+77	35' RT	311
	STH 100	496+97		498+76	44' RT	180
		497+33		499+04	1' LT	171
		497+33		499+04	1' RT	172
		497+61		499+14	45' LT	153
				PROJECT TOTALS		1932

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

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REMOVING MASONRY

STAGE	ROADWAY	STATION	TO	STATION	OFFSET	204.0185 REMOVING MASONRY CY
2	STH 57	115+00		130+00	--	40
				PROJECT TOTALS		40

STRUCTURES

CATEGORY	STAGE	ROADWAY	LOCATION	203.0200 REMOVING OLD STRUCTURE 122+00 LS
0020	2	STH 57	122+00	1
			PROJECT TOTALS	1

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OBLITERATING OLD ROAD

ROADWAY	STATION	TO	STATION	OFFSET	214.0100 OBLITERATING OLD ROAD STA	COMMENTS
STH 57	104+00		104+86	LT	0.9	SB LANES
	114+38		119+99	RT	5.7	NB OFF RAMP
	116+67		119+74	LT	4.9	SB ON RAMP
	121+79		128+89	LT	6.8	SB OFF RAMP
	121+88		124+45	RT	4.2	NB ON RAMP
			PROJECT TOTALS		22.5	

REMOVING SLOPE PAVING

CATEGORY	STAGE	ROADWAY	STATION	TO	STATION	OFFSET	204.0175 REMOVING CONCRETE SLOPE PAVING SY
0020	2	STH 100	497+68		498+65	64' LT	247
			497+74		498+69	64' RT	238
					PROJECT TOTALS		485

SALVAGED SAND BARRELS

STAGE	ROADWAY	STATION	OFFSET	614.0935 SALVAGED SAND BARRELS EACH
2	STH 100	497+20	--	13
		499+15	--	12
		PROJECT TOTALS		25

HAZARDOUS MATERIAL

CATEGORY	LOCATION	203.0210.S ABATEMENT OF ASBESTOS CONTAINING MATERIAL B-40-153 LS	205.0501.S EXCAVATION, HAULING, AND DISPOSAL OF PETROLEUM CONTAMINATED SOIL TON	SPV.0195.01 EXCAVATION, HAULING, AND DISPOSAL OF CREOSOTE CONTAMINATED SOIL TON
0020	B-40-153	1	--	3587
0010	DONGES BAY ROAD	--	1.7	--
	PROJECT TOTALS	1	1.7	3587

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

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REMOVING PAVEMENT

STAGE	ROADWAY	STATION	TO	STATION	OFFSET	204.0100 REMOVING CONCRETE PAVEMENT SY
3	STH 57	104+00		120+04	LT	7083
		104+00		120+04	RT	7244
		112+00		120+38	150' LT	2418
		112+78		120+33	150' RT	2057
		121+53		137+11	RT	7045
		121+53		130+00	100' RT	2429
		121+53		128+00	LT	2666
	STH 100	481+98		482+69	RT	330
		483+32		486+75	RT	2018
		486+75		491+75	RT	2741
		491+75		498+50	RT	2033
		498+50		502+05	RT	716
	Deerbrook Trail	--		--	--	190
	Deerwood Drive	--		--	--	118
				STAGE 3 SUBTOTAL		39088
4A	STH 100	491+75		498+50	RT	871
		498+50		502+05	RT	720
				STAGE 4A SUBTOTAL		1591
4B	STH 100	497+65		499+25	17' LT	739
				STAGE 4B SUBTOTAL		739
5	STH 57	121+28		129+95	160' LT	2046
		128+00		137+11	LT	4202
	STH 100	481+98		482+63	LT	356
		483+27		486+75	LT	1611
		486+75		491+75	LT	2822
		491+75		497+71	LT	2626
		499+25		506+60	LT	3329
	Deerbrook Trail	--		--	--	210
	Deerwood Drive	--		--	--	154
				STAGE 5 SUBTOTAL		17356
				PROJECT TOTALS		58774

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REMOVING PAVEMENT

ROADWAY	STATION	TO	STATION	OFFSET	204.0109.S REMOVING CONCRETE SURFACE PARTIAL DEPTH SF	204.0120 REMOVING ASPHALTIC SURFACE MILLING SY	204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS SY
STH 57	136+99		139+56	RT/LT	27010	3010	--
	139+56		147+98	RT/LT	69660	7740	--
	147+98		153+77	RT/LT	50890	5660	--
	147+98		150+46	MED	2730	310	--
	151+39		153+77	MED	2600	290	--
	153+77		173+99	RT/LT	163400	18160	--
	173+99		177+28	RT/LT	--	2310	--
	177+28		218+91	RT/LT	--	17630	--
	218+91		243+02	RT/LT	--	11950	--
	243+02		281+98	RT/LT	--	15550	--
	281+88		281+98	--	--	--	33
RAMP C	13+20		15+12	RT	3868	430	--
STH 100	482+38		482+63	LT	--	--	125
	482+44		482+69	RT	--	--	106
	483+28		483+78	LT	--	--	211
	483+32		483+78	RT	--	--	196
	513+78		513+98	34' RT	630	--	--
	513+87		514+07	38' LT	663	--	--
	516+48		516+70	34' RT	817	--	--
	516+58		516+78	38' LT	610	--	--
DONGES BAY	47+36		49+76	--	--	1620	--
	50+29		52+57	--	--	930	--
			PROJECT TOTALS		322878	85590	671

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

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REMOVING CURB & GUTTER

STAGE	ROADWAY	STATION	TO STATION	OFFSET	204.0150 REMOVING CURB & GUTTER LF
1	STH 57	121+24	128+57	160' LT	880
		121+27	121+68	186' LT	92
	STH 100	476+38	480+15	--	645
		483+27	486+16	14' LT	288
		488+68	491+30	--	295
		491+57	491+85	--	67
		492+23	496+35	--	590
		499+97	505+00	14' LT	521
		502+78	505+00	3' LT	221
		504+47	506+41	8' RT	393
		517+74	521+23	--	359
		522+79	524+51	16' RT	172
			STAGE 1 SUBTOTAL		4523
2	STH 100	486+16	486+31	14' LT	39
		496+88	499+39	--	510
			STAGE 2 SUBTOTAL		549
3	STH 57	137+69	137+78	11'RT	10
		137+47	137+88	66'RT	68
		138+61	138+73	75' RT	8
		150+21	150+70	47'RT	73
		151+10	151+10	252' RT	12
		151+15	151+55	76'RT	50
		174+96	175+94	33'RT	132
		229+86	230+22	25'RT	65
		230+29	230+57	25'RT	87
		230+95	231+40	53'RT	55
	STH 100	480+79	481+98	15' RT	123
		501+21	503+79	10' RT	258
		502+05	507+05	55' RT	519
			STAGE 3 SUBTOTAL		1460
			TABLE TOTALS		6532

CONTINUED

REMOVING CURB & GUTTER

STAGE	ROADWAY	STATION	TO STATION	OFFSET	204.0150 REMOVING CURB & GUTTER LF
5	STH 57	137+05	137+08	226' LT	12
		137+49	137+52	80'LT	41
		137+69	137+81	47'LT	19
		137+66	137+78	3'LT	13
		150+14	150+61	47'LT	65
		150+86	151+03	80'LT	54
		151+28	151+62	83'LT	58
		151+32	151+41	237' LT	12
		231+31	231+60	29'LT	91
		232+29	234+07	208'LT	412
	Deerbrook Trail North	--	--	LT	12
	Deerwood Drive West	--	--	RT	40
			STAGE 5 SUBTOTAL		830
6	STH 100	505+00	506+60	7' LT	163
			STAGE 6 SUBTOTAL		163
			TABLE TOTALS		993
			PROJECT TOTALS		7524

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

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REMOVING SIDEWALK

STAGE	ROADWAY	STATION	TO	STATION	OFFSET	204.0155 REMOVING CONCRETE SIDEWALK SY
1	STH 57	121+27		121+68	191' LT	22
	STH 100	482+03		482+62	61' LT	37
		482+33		482+69	77' RT	25
		483+23		484+82	61' LT	113
		483+33		483+81	70' RT	35
		491+57		491+74	--	27
		504+38		505+00	10' LT	40
		504+47		506+41	11' RT	98
				STAGE 1 SUBTOTAL		397
3	STH 57	105+18		105+32	74' LT	30
		120+01		120+29	180' RT	14
		136+54		136+89	55' RT	25
		137+69		137+69	59'RT	40
		137+71		137+71	4'RT	10
		138+62		138+62	64'RT	20
		150+45		150+45	62'RT	90
		151+37		151+37	62'RT	50
		230+44		230+44	30'RT	40
	STH 100	483+81		486+49	70' RT	209
		486+88		491+67	65' RT	327
		491+50		491+74	8' RT	20
		492+00		492+06	90' RT	13
		500+35		502+08	55' RT	114
		501+13		503+67	63' LT	171
		506+57		507+00	69' RT	36
				STAGE 3 SUBTOTAL		1210
				TABLE TOTALS		1607

CONTINUED

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REMOVING SIDEWALK

STAGE	ROADWAY	STATION	TO	STATION	OFFSET	204.0155 REMOVING CONCRETE SIDEWALK SY
5	STH 57	137+76		137+76	59'LT	30
		150+34		150+34	58'LT	60
		151+52		151+52	60'LT	70
		231+46		231+46	33'LT	40
	STH 100	486+18		486+28	75' LT	59
		486+47		486+65	114' LT	14
		487+10		491+43	80' LT	327
		499+91		501+15	55' LT	89
		503+67		506+12	75' LT	163
				STAGE 5 SUBTOTAL		851
6	STH 100	505+00		505+60	10' LT	98
				STAGE 6 SUBTOTAL		98
				TABLE TOTALS		950
				PROJECT TOTALS		2557

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

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Division	From/To Station	Location	205.0100 Common Excavation (1) Cut (2)	Salvaged/ Unusable Pavement Material (3)	Available Material (4)	Unexpanded Fill	Expanded Fill (5) Factor 1.30	Mass Ordinate +/- (6)	Waste	Borrow (item #208.0100)
Stage 1 - STH 100	476+38 to 524+51	STH 100	3416	279	3137	1	2	3135	3135	0
Stage 1 - Ramp C	6+47 to 13+49	Ramp C	873	68	805	0	0	805	805	0
Stage 2 - STH 100	486+16 to 500+18	STH 100	268	43	225	0	0	225	225	0
Stage 3 - STH 57	104+00 to 137+00	STH 57	63829	8013	55816	2648	3442	52374	52374	0
Stage 3 - STH 100	480+85 to 506+76	STH 100	11533	3202	8331	814	1058	7273	7273	0
Stage 4A - STH 100	493+50 to 502+05	STH 100	721	0	721	1	2	719	719	0
Stage 4B - STH 100	497+65 to 499+40	STH 100	840	219	621	0	0	621	621	0
Stage 5 - STH 57	121+00 to 137+00	STH 57	29646	1401	28245	1289	1676	26569	26569	0
Stage 5 - STH 100	482+00 to 506+60	STH 100	14081	3736	10345	99	129	10215	10215	0
Stage 6 - STH 100	476+38 to 524+51	STH 100	7309	599	6710	1082	1407	5303	5303	0
STH 57 Widening	221+84 to 237+76	STH 57	2205	0	2205	113	147	2059	2059	0
Donges Bay Road	50+79 to 52+57	Donges Bay Road	167	0	167	0	0	166	166	0
Grand Total			134887	17559	117327	6048	7862	109466	109466	0
		Total Common Exc	134887							

1) Common Excavation is the sum of the Cut and EBS Excavation columns. Item number 205.0100
2) Salvaged/Unsuable Pavement Material is included in Cut.
3) Salvaged/Unusable Pavement Material
4) Available Material = Cut - Salvaged/Unusuable Pavement Material
5) Expanded Fill. Factor = 1.3
6) The Mass Ordinate + or - Qty calculated for the Division. Plus quantity indicates an excess of material within the Division. Minus indicates a shortage of material within the Division.

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

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BASE AGGREGATE

STAGE	ROADWAY	STATION	TO	STATION	OFFSET	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	312.0110 SELECT CRUSHED MATERIAL TON	624.0100* WATER MGAL
1	STH 57	121+24		128+57	160' LT	--	893	--	14
		121+27		121+68	186' LT	--	16	--	1
	STH 100	476+38		480+15	--	--	537	--	9
		482+02		482+63	70' LT	11	--	--	1
		482+33		482+69	77' RT	7	--	--	1
		483+27		486+31	4' LT	--	248	--	4
		488+68		491+30	--	--	207	--	4
		491+57		491+85	--	--	30	--	1
		492+23		496+35	--	--	613	--	10
		496+82		497+65	65' RT	--	43	--	1
		498+96		499+72	82' LT	--	35	--	1
		500+18		505+00	7' LT	--	496	--	8
		504+47		506+41	8' RT	--	127	--	2
		517+74		524+51	--	--	892	--	14
				STAGE 1 SUBTOTAL		17	4136	--	71
2	STH 100	496+84		499+44		--	255	--	4
		499+93		500+18		--	40	--	1
				STAGE 2 SUBTOTAL		--	295	--	5
3	STH 57	121+51		137+11	RT	290	3192	7662	53
		135+24		136+99	13' RT	45	--	--	1
	STH 100	480+77		482+69	10' RT	--	182	--	3
		481+98		482+69	RT	--	127	304	2
		483+32		486+34	10' RT	--	208	--	4
		483+32		486+75	RT	55	678	1627	11
		486+75		491+75	RT	92	994	2386	17
		491+75		498+50	RT	110	1265	3036	21
		496+80		497+65	67' RT	46	--	--	1
		498+50		507+06	RT	--	582	1396	9
		498+92		499+77	78' LT	17	125	299	3
		498+95		499+74	81' LT	37	--	--	1
		499+33		506+96	68' RT	148	--	--	3
				STAGE 3 SUBTOTAL:		840	7353	16711	129
				TABLE TOTALS		858	11784	16711	205

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

Continued

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

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BASE AGGREGATE

						305.0110	305.0120	312.0110	624.0100*
STAGE	ROADWAY	STATION	TO	STATION	OFFSET	BASE AGGREGATE DENSE 3/4-INCH TON	BASE AGGREGATE DENSE 1 1/4-INCH TON	SELECT CRUSHED MATERIAL TON	WATER MGAL
4A	STH 100	487+41		494+12	10' RT	--	384	--	6
		493+50		498+50	RT	--	281	674	5
		496+06		496+63	40' LT	--	413	--	7
		498+50		502+05	RT	--	251	602	4
		499+78		501+49	80' LT	--	144	--	3
		499+94		503+00	10' RT	--	239	--	4
				STAGE 4A SUBTOTAL:		--	1713	1277	29
4B	STH 100	497+65		499+25	LT	--	315	757	5
		498+95		499+25	17' LT	--	49	--	1
				STAGE 4B SUBTOTAL:		--	365	757	6
5	STH 57	104+00		120+21	RT	--	3473	8335	53
		104+00		120+21	LT	--	3093	7424	47
		104+00		105+00	55' LT	36	--	--	1
		105+14		105+61	53' RT	10	--	--	1
		105+55		105+87	0	9	--	--	1
		105+56		119+53	67' LT	259	--	--	4
		117+51		119+82	5' LT	82	--	--	2
		117+66		120+16	30' RT	79	--	--	2
		119+63		120+17	85' RT	26	--	--	1
		121+52		137+11	LT	279	3790	9096	62
		121+55		122+20	60' LT	36	--	--	1
		121+57		124+49	10' LT	92	--	--	2
		121+92		126+50	26' RT	183	--	--	3
		135+26		136+77	6' LT	38	--	--	1
	STH 100	481+97		482+63	LT	--	133	320	2
		483+27		486+75	LT	88	719	1725	13
		484+21		484+45	70' LT	--	13	--	1
		486+75		491+75	LT	85	1069	2566	18
		491+75		498+40	LT	96	1219	2926	20
		499+25		506+60	LT	--	1451	3483	22
		499+77		506+12	80' LT	116	--	--	2
				STAGE 5 SUBTOTAL:		1515	14961	35875	259
				TABLE TOTALS		1515	17038	37909	294

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

Continued

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

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BASE AGGREGATE

STAGE	ROADWAY	STATION	TO	STATION	OFFSET	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	312.0110 SELECT CRUSHED MATERIAL TON	624.0100* WATER MGAL
6	STH 100	483+33		486+34		--	265	635	4
		484+47		486+10	12' LT	42	--	--	1
		484+54		486+28	11' RT	63	--	--	1
		487+10		490+71		--	260	625	4
		487+15		488+68	11' LT	46	--	--	1
		487+47		488+73	12' RT	33	--	--	1
		492+67		497+65		--	568	1363	9
		495+55		497+22	26' LT	59	--	--	1
		495+57		497+60	10' RT	74	--	--	2
		498+95		506+60		--	815	1955	13
		499+01		501+54	26' LT	86	--	--	2
		499+38		504+38	--	180	--	--	3
		504+50		506+37	11' RT	50	--	--	1
				STAGE 6 SUBTOTAL:		633	1908	4578	43
REHAB	STH 57	173+79		177+28	LT	41	--	--	1
		177+28		218+91	RT/LT	946	--	--	15
		218+91		243+02	RT/LT	376	--	--	6
		243+02		281+98	RT/LT	895	--	--	14
		221+84		225+30	RT	--	71	64	2
		221+84		225+30	RT	--	33	30	1
		225+29		226+15	RT	--	30	27	1
		225+30		230+20	RT	--	623	561	10
		230+18		230+27	RT	--	17	16	1
		230+23		231+08	RT	--	71	64	2
		230+93		233+05	RT	--	348	313	6
		233+05		238+50	RT	--	101	91	2
		233+05		237+76	RT	--	250	225	4
	Donges Bay Road	50+85		52+57	LT	--	28	--	1
				REHAB SUBTOTAL		2258	1572	1391	66
UNDISTRIBUTED				REPAIR AND MISC.		265	1642	3055	30
				TABLE TOTALS		3156	5122	9024	139
				PROJECT TOTALS		5528	33943	63644	638

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

BACKFILL SLURRY

ROADWAY	STATION	TO	STATION	OFFSET	SPV.0035.01 BACKFILL SLURRY CY
STH 100	487+00		487+50	--	10
			PROJECT TOTALS		10

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

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CONCRETE PAVEMENT

STAGE	ROADWAY	STATION	TO	STATION	OFFSET	415.0080 CONCRETE PAVEMENT 8-INCH SY	415.1080 CONCRETE PAVEMENT HES 8-INCH SY
3	STH 57	121+55		122+09	RT	--	283
		122+09		137+11	RT	7528	--
	STH 100	481+98		482+69	RT	308	--
		483+32		486+75	RT	1802	--
		486+75		491+75	RT	2495	--
		491+75		497+07	RT	2688	--
		497+07		499+53	RT	--	795
		497+10		497+68	83' RT	--	135
		499+53		507+06	RT	1035	--
		498+92		499+51	95' LT	--	135
		499+51		499+77	78' LT	43	--
				STAGE 3 SUBTOTAL		15899	1348
4A	STH 100	493+50		497+07	RT	477	--
		497+07		499+53	RT	--	558
		499+53		502+05	RT	363	--
				STAGE 4A SUBTOTAL		840	558
4B	STH 100	497+65		499+25	LT	--	946
				STAGE 4B SUBTOTAL		--	946
5	STH 57	104+00		119+61	RT	7796	--
		104+00		119+61	LT	7330	--
		119+61		120+21	99' RT	--	134
		119+61		120+21	52' RT	--	274
		119+61		120+21	12' RT	--	157
		119+61		120+21	30' LT	--	320
		121+52		122+13	83' LT	--	134
		121+52		122+13	32' LT	--	273
		121+52		122+13	8' RT	--	158
		122+13		137+11	LT	8644	--
	STH 100	481+97		482+63	LT	336	--
		483+28		486+75	LT	1816	--
		486+75		491+75	LT	2887	--
		491+75		497+04	LT	2500	--
		497+04		498+40	51' LT	--	617
		499+25		499+51	51' LT	--	126
		499+51		506+60	51' LT	3709	--
				STAGE 5 SUBTOTAL		35018	2193
6	STH 100	483+33		486+11	--	391	--
		487+46		490+71	--	412	--
		492+67		497+06	--	975	--
		497+06		497+65	--	--	215
		498+95		499+53	--	--	179
		499+53		505+13	--	1175	--
				STAGE 6 SUBTOTAL		2953	394
				PROJECT TOTALS		54710	5439

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

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ASPHALTIC PAVEMENT

STAGE	ROADWAY	STATION	TO	STATION	OFFSET	455.0605 TACK COAT GAL	460.6223 HMA PAVEMENT 3 MT 58-28 S TON	460.6224 HMA PAVEMENT 4 MT 58-28 S TON	465.0125 ASPHALTIC SURFACE TEMPORARY TON	450.4000 HMA COLD WEATHER PAVING TON	644.1410 TEMPORARY PEDESTRIAN SURFACE ASPHALT SF
1	STH 57	121+24		128+57	160' LT	143	--	--	601	601	--
		121+27		121+68	186' LT	2	--	--	8	8	--
	STH 100	476+38		480+15	--	68	--	--	285	285	--
		483+27		486+16	4' LT	31	--	--	132	132	--
		483+27		484+82	70' LT	--	--	--	--	--	880
		483+61		483+81	70' RT	--	--	--	--	--	125
		488+68		491+30	--	26	--	--	110	110	--
		491+57		491+85	--	4	--	--	16	16	--
		492+23		496+35	--	77	--	--	326	326	--
		500+18		505+00	7' LT	62	--	--	263	263	--
		504+47		506+41	8' RT	16	--	--	68	68	--
		517+74		524+51	--	112	--	--	473	473	--
				STAGE 1 SUBTOTAL		541	--	--	2282	2282	1005
2	STH 100	486+16		486+31	4' LT	2	--	--	8	8	--
		496+84		499+44	--	32	--	--	135	135	--
		499+93		500+18	--	5	--	--	21	21	--
				STAGE 2 SUBTOTAL		39	--	--	165	165	--
3	STH 100	480+77		482+69	10' RT	23	--	--	96	--	--
		483+32		486+34	10' RT	26	--	--	111	--	--
	Kildeer Court South	--		--	--	8	16	12	--	--	--
				STAGE 3 SUBTOTAL		58	16	12	207	--	--
4A	STH 100	487+41		497+66	10' RT	122	--	--	515	--	--
		496+06		496+63	40' LT	22	--	--	91	--	--
		499+78		501+49	80' LT	18	--	--	76	--	--
		499+34		503+00	10' RT	54	--	--	226	--	--
				STAGE 4A SUBTOTAL		216	--	--	909	--	--
4B	STH 100	498+94		499+40	28' LT	11	--	--	46		--
				STAGE 4B SUBTOTAL		11	--	--	46	--	--
Rehab	STH 57	136+99		139+56	RT/LT	211	408	317	--	--	--
		139+56		147+98	RT/LT	534	1029	801	--	--	--
		147+98		153+77	RT/LT	431	831	646	--	--	--
		153+77		173+99	RT/LT	1252	2414	1878	--	--	--
		173+99		177+28	RT/LT	155	298	232	--	--	--
		177+28		218+91	RT/LT	1109	2139	1664	--	--	--
		218+91		243+02	RT/LT	1022	1972	1534	--	--	--
		221+84		238+50	RT	303	682	227	--	--	--
		243+02		281+98	RT/LT	1037	2001	1556	--	--	--
				REHAB SUBTOTAL		6054	11774	8855	--	--	--
				PROJECT TOTALS		6919	11790	8867	3608	2446	1005

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ASPHALTIC CURB

STAGE	ROADWAY	STATION	TO	STATION	OFFSET	465.0310 ASPHALTIC CURB LF	COMMENT
1	RAMP C	6+47		13+00	35' RT	736	NB Widening
				STAGE 1 SUBTOTAL		736	--
				PROJECT TOTALS		736	

APPROACH SLAB OVERLAY

STAGE	ROADWAY	STATION	TO	STATION	OFFSET	509.0200 PREPARATION APPROACHES SY	509.0600 CLEANING APPROACHES SY	509.2600 CONCRETE MASONRY OVERLAY APPROACHES CY
3	STH 100	513+78		513+98	34' RT	70	70	3
		516+48		516+70	34' RT	91	91	4
				STAGE 3 SUBTOTAL		161	161	7
5	STH 100	513+87		514+07	38' LT	74	74	3
		516+58		516+78	38' LT	68	68	3
				STAGE 5 SUBTOTAL		142	142	6
				PROJECT TOTALS		303	303	13

PAVEMENT REPAIR

ROADWAY	STATION	TO	STATION	OFFSET	390.0103 BASE PATCHING SY	390.0203 BASE PATCHING ASPHALTIC SY	390.0303 BASE PATCHING CONCRETE SY
STH 57	137+13		137+30	71' LT	--	--	139
	137+21		137+45	79' RT	--	--	139
	137+75		138+24	8' LT	--	--	69
	139+77		139+89	25' LT	--	--	31
	140+07		140+19	12' LT	--	--	35
	146+93		147+05	13' RT	--	--	35
	148+23		148+37	14' RT	--	--	32
	149+86		150+34	2' RT	--	--	69
	150+62		150+90	74' LT	--	--	139
	150+96		151+13	69' RT	--	--	134
	151+46		151+95	2' LT	--	--	69
	153+47		153+59	14' LT	--	--	32
	154+77		154+89	13' LT	--	--	35
	230+02		230+53	3' RT	--	--	64
	230+55		230+93	33' LT	--	--	132
	230+91		231+29	33' RT	--	--	127
	231+20		231+70	3' RT	--	--	69
	136+99		173+99	RT/LT	--	--	789
	173+99		281+98	RT/LT	--	864	--
Deerwood Drive West	--		--	RT	28	--	--
Schroeder Drive West	--		--	RT	29	--	--
Schroeder Drive East	--		--	LT	24	--	--
Deerbrook Trail North	--		--	LT	25	--	--
			PROJECT TOTALS		106	864	2139

JOINT AND CRACK REPAIR

ROADWAY	STATION	TO	STATION	SPV.0195.02 JOINT AND CRACK REPAIR TON
STH 57	136+99		173+99	575
		PROJECT TOTALS		575

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ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

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3

COLD PATCH

495.1000.S
COLD PATCH

LOCATION	TON
Project No. 2270-04-70	20
PROJECT TOTALS	20

CONCRETE PAVEMENT JOINT LAYOUT

415.5110.S
CONCRETE PAVEMENT JOINT LAYOUT

LOCATION	LS
Project No. 2270-04-70	1
PROJECT TOTALS	1

PREPARE FOUNDATION FOR ASPHALTIC PAVING

211.0100
PREPARE FOUNDATION FOR ASPHALTIC PAVING

ROADWAY	STATION	TO	STATION	OFFSET	LS
STH 57	136+99		281+98	RT/LT	1
			PROJECT TOTALS		1

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

						CONCRETE CURB & GUTTER						
						601.0405	601.0407	601.0409	601.0411	601.0413	601.0557	
						CONCRETE CURB & GUTTER 18-INCH TYPE A	CONCRETE CURB & GUTTER 18-INCH TYPE D	CONCRETE CURB & GUTTER 30-INCH TYPE A	CONCRETE CURB & GUTTER 30-INCH TYPE D	CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE G	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D	
STAGE	ROADWAY	STATION	TO	STATION	OFFSET	LF	LF	LF	LF	LF	LF	COMMENT
3	STH 57	121+91		136+81	16' RT	--	--	1493	--	--	--	NB Median
		122+13		136+95	61' RT	--	--	1556	--	--	--	NB Outside
		135+27		136+97	10' RT	--	--	340	--	--	--	NB Left Turn Island
		137+44		137+87	--	--	--	--	166	--	--	Deerwood Intersection
		150+11		151+64	--	--	--	--	413	--	--	Schroeder Intersection
		150+70		150+70	105' RT	--	--	--	--	25	--	Traffic Signal Pad
		174+96		175+52	--	--	--	--	57	--	--	County Line Rd Median
		225+29		226+15	RT	--	--	--	--	--	98	Kwik Trip Driveway
		226+15		230+28	RT	--	--	--	--	--	460	Donges Bay SE Quad
		230+25		230+55	RT	--	--	--	--	--	70	Donges Bay SE Island
		230+82		233+05	RT	--	--	--	--	--	239	Donges Bay NE Quad
	STH 100	481+98		482+69	55' RT	--	--	72	--	--	--	EB Outside
		483+32		486+50	60' RT	--	--	331	--	--	--	EB Outside
		486+87		491+60	60' RT	--	--	514	--	--	--	EB Outside
		491+99		497+67	60' RT	--	--	630	--	--	--	EB Outside
		496+83		497+61	60' RT	--	--	172	--	--	--	EB Right Turn Island
		498+95		499+77	105' LT	--	--	97	--	--	--	WB Outside
		498+98		499+72	74' LT	--	--	157	--	--	--	WB Right Turn Island
		499+62		507+00	58' RT	--	--	757	--	--	--	EB Outside
	Schroeder Drive East	--		--	LT	--	--	--	12	--	--	WB Loop Patch
	Deerbrook Trail South	--		--	LT	40	--	--	--	--	--	SB Outside
		--		--	RT	41	--	--	--	--	--	NB Outside
				STAGE 3 SUBTOTAL		81	--	6119	648	25	867	--
5	STH 57	104+00		104+87	13' LT	--	--	87	--	--	--	SB Median
		104+00		104+89	--	--	--	90	--	--	--	NB Median
		104+00		105+18	44' LT	--	--	159	--	--	--	SB Outside
		104+00		120+14	44' RT	--	--	1652	--	--	--	NB Outside
		105+11		105+28	--	--	--	22	--	--	--	Median Opening
		105+13		119+82	13' RT	--	--	1472	--	--	--	NB Median
		105+36		119+82	13' LT	--	--	1442	--	--	--	SB Median
		105+52		119+41	55' LT	--	--	1418	--	--	--	SB Outside
		117+65		120+15	23' RT	--	--	500	--	--	--	NB Left Turn Island
		119+63		120+13	76' RT	--	--	111	--	--	--	NB Right Turn Island
		121+58		124+49	13' LT	--	--	582	--	--	--	SB Left Turn Island
		121+58		137+07	55' LT	--	--	1569	--	--	--	SB Outside
		121+59		122+20	70' LT	--	--	134	--	--	--	SB Right Turn Island
		121+91		136+76	13' LT	--	--	1488	--	--	--	SB Median
		230+00		231+58	LT	--	240	--	--	--	--	Donges Bay SW Quad
		231+28		231+60	LT	--	--	--	--	--	66	Donges Bay NW Island
		231+66		232+25	LT	--	--	--	--	--	146	Donges Bay NW Quad
	Schroeder Drive West	--		--	RT	--	--	--	12	--	--	EB Loop Patch
				TABLE TOTALS		81	240	16845	660	25	1079	

Continued

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

CONCRETE CURB & GUTTER

STAGE	ROADWAY	STATION	TO	STATION	OFFSET	601.0405 CONCRETE CURB & GUTTER 18-INCH TYPE A LF	601.0407 CONCRETE CURB & GUTTER 18-INCH TYPE D LF	601.0409 CONCRETE CURB & GUTTER 30-INCH TYPE A LF	601.0411 CONCRETE CURB & GUTTER 30-INCH TYPE D LF	601.0413 CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE G LF	601.0557 CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D LF	COMMENT
5	STH 100	481+97		482+63	55' LT	--	--	64	--	--	--	WB Outside
		483+28		485+91	58' LT	--	--	263	--	--	--	WB Outside
		485+91		486+16	58' LT	--	--	--	--	25	--	Traffic Signal Pad
		486+16		486+65	58' LT	--	--	103	--	--	--	WB Outside
		487+08		491+45	55' LT	--	--	538	--	--	--	WB Outside
		491+85		496+57	74' LT	--	--	512	--	--	--	WB Outside
		496+57		496+82	74' LT	--	--	--	--	25	--	Traffic Signal Pad
		499+01		501+54	32' LT	--	--	253	--	--	--	WB Left Turn Island
		499+77		506+60	65' LT	--	--	687	--	--	--	WB Outside
	Deerbrook Trail North	--		--	LT	--	--	--	12	--	--	SB Loop Patch
	Deerwood Drive West	--		--	RT	--	--	--	40	--	--	EB Outside
		--		--	RT	--	--	--	12	--	--	EB Loop Patch
		--		--	LT	--	--	--	--	25	--	Traffic Signal Pad
				STAGE 5 SUBTOTAL		--	240	13146	76	75	212	--
6	STH 100	476+38		480+11	14' RT	--	--	--	375	--	--	EB Median
		477+66		480+11	17' LT	--	--	--	247	--	--	WB Median
		480+77		481+98	16' RT	--	--	--	124	--	--	EB Median
		481+98		482+87	16' RT	--	--	89	--	--	--	EB Median
		481+98		482+85	6' LT	--	--	88	--	--	--	WB Median
		483+09		486+10	16' LT	--	--	301	--	--	--	WB Median
		483+11		486+10	8' LT	--	--	301	--	--	--	EB Median
		484+54		486+28	6' RT	--	--	348	--	--	--	EB Left Turn Island
		487+15		488+68	6' LT	--	--	306	--	--	--	WB Left Turn Island
		487+47		497+22	31' LT	--	--	979	--	--	--	WB Median
		487+47		497+22	15' RT	--	--	974	--	--	--	EB Median
		495+57		497+60	5' RT	--	--	406	--	--	--	EB Left Turn Island
		499+01		501+54	21' LT	--	--	254	--	--	--	WB Left Turn Island
		499+38		506+58	21' LT	--	--	721	--	--	--	WB Median
		499+38		506+58	15' RT	--	--	720	--	--	--	EB Median
		504+50		506+37	7' RT	--	--	374	--	--	--	EB Left Turn Island
		517+78		521+23	15' LT	--	--	--	--	349	--	WB Median
		522+79		524+51	--	--	--	--	--	172	--	EB Median
				STAGE 6 SUBTOTAL		--	--	5861	746	521	--	--
				TABLE TOTALS		--	--	8281	798	571	--	--
				PROJECT TOTALS		81	240	25126	1470	621	1079	

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PEDESTRIAN CURB

STAGE	ROADWAY	STATION	TO	STATION	OFFSET	601.0600 CONCRETE CURB PEDESTRIAN LF	COMMENT
3	STH 57	136+81		136+87	13' RT	10	NB Left Turn Island
	STH 100	491+31		491+51	65' RT	20	Sidewalk Connection
		492+08		491+28	65' RT	20	Sidewalk Connection
		497+51		497+65	66' RT	35	EB Right Turn Island
		498+96		499+09	83' LT	34	WB Right Turn Island
				STAGE 3 SUBTOTAL		119	--
5	STH 57	105+14		105+61	56' RT	49	Bus Stop
		120+06		120+12	28' RT	14	NB Left Turn Island
		120+03		120+17	84' RT	33	NB Right Turn Island
		121+56		121+70	66' LT	39	SB Right Turn Island
		121+60		121+66	8' LT	14	SB Left Turn Island
	STH 100	491+13		491+38	8' LT	25	Sidewalk Connection
				STAGE 5 SUBTOTAL		174	--
6	STH 100	486+18		486+28	11' RT	14	EB Left Turn Island
		487+20		487+26	11' LT	14	WB Left Turn Island
		497+51		497+57	10' RT	14	EB Left Turn Island
		499+02		499+08	26' LT	14	WB Left Turn Island
				STAGE 6 SUBTOTAL		56	--
				PROJECT TOTALS		349	

SAFETY FENCE

STAGE	ROADWAY	STATION	TO	STATION	OFFSET	616.0700.S FENCE SAFETY LF	COMMENT
3	STH 100	507+25		503+50	125' RT	200	
	UNDISTRIBUTED	--		--	--	50	
				PROJECT TOTALS		250	

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

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LOCATING NO-PASSING ZONES

ROADWAY	STATION	TO	STATION	OFFSET	648.0100 LOCATING NO-PASSING ZONES MI
STH 57	179+50		282+00	--	1.94
			PROJECT TOTALS		1.94

CONCRETE DRIVEWAY

STAGE	ROADWAY	STATION	TO	STATION	OFFSET	416.0160 CONCRETE DRIVEWAY 6-INCH SY
3	STH 57	150+62		150+68	105' RT	17
		229+51		229+76	38' RT	22
				STAGE 3 SUBTOTAL		39
5	STH 57	137+52		137+59	86' LT	22
	STH 100	484+19		484+47	69' LT	45
		485+91		486+16	63' LT	17
		496+57		496+82	78' LT	17
				STAGE 5 SUBTOTAL		101
				PROJECT TOTALS		140

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

3

CONCRETE SIDEWALK

STAGE	ROADWAY	STATION	TO	STATION	OFFSET	602.0410 CONCRETE SIDEWALK 5-INCH SF
1	STH 100	482+02		482+63	70' LT	354
		482+33		482+69	77' RT	218
				STAGE 1 SUBTOTAL		572
3	STH 57	122+15		136+89	70' RT	9676
		135+26		136+97	13' RT	851
		137+50		138+73	NE	940
		150+21		150+62	SE	546
		151+19		151+54	NE	289
		230+28		230+53	ISLAND	265
	STH 100	483+33		486+48	76' RT	2014
		486+89		491+65	67' RT	3056
		492+00		497+59	67' RT	3668
		496+82		497+65	65' RT	873
		498+96		499+72	82' LT	703
		499+01		499+77	92' LT	559
		499+33		506+95	65' RT	4927
				STAGE 3 SUBTOTAL		28367
				TABLE TOTALS		28939

Continued

CONCRETE SIDEWALK

STAGE	ROADWAY	STATION	TO	STATION	OFFSET	602.0410 CONCRETE SIDEWALK 5-INCH SF
5	STH 57	104+00		105+00	55' LT	603
		105+14		105+61	53' RT	330
		105+55		105+87	--	293
		105+56		119+53	67' LT	8632
		117+51		119+82	5' LT	1580
		117+66		120+16	30' RT	1518
		119+63		120+17	85' RT	509
		121+55		122+20	60' LT	702
		121+57		124+49	10' LT	1777
		121+65		137+05	67' LT	9239
		121+92		126+50	26' RT	3536
		135+26		136+77	6' LT	740
		137+52		137+86	NW	479
		137+67		137+76	MEDIAN	52
		138+01		138+15	BUS STOP	159
		150+11		150+54	SW	511
		150+87		150+99	MEDIAN	60
		151+32		151+64	NW	471
		231+32		231+57	ISLAND	227
	STH 100	483+27		484+21	70' LT	556
		484+45		486+63	70' LT	2460
		487+10		491+43	70' LT	2838
		491+89		496+93	70' LT	3208
		499+77		506+12	80' LT	3821
				STAGE 5 SUBTOTAL		44302
6	STH 100	484+47		486+10	12' LT	808
		484+54		486+28	11' RT	1221
		487+15		488+68	11' LT	890
		487+47		488+73	12' RT	635
		495+55		497+22	26' LT	1131
		495+57		497+60	10' RT	1420
		499+01		501+54	26' LT	1659
		499+38		504+38	--	3479
		504+50		506+37	11' RT	968
				STAGE 6 SUBTOTAL		12211
				TABLE TOTALS		56513
				PROJECT TOTALS		85452

3

DETECTABLE WARNING FIELDS

STAGE	ROADWAY	STATION	OFFSET	602.0505 CURB RAMP DETECTABLE WARNING FIELD YELLOW SF	602.0605 CURB RAMP DETECTABLE WARNING FIELD RADIAL YELLOW SF
3	STH 57	136+64	65' RT	12	--
		136+76	75' RT	12	--
		137+52	73' RT	12	--
		137+74	48' RT	12	--
		138+67	72' RT	10	--
		150+37	51' RT	10	--
		150+54	62' RT	10	--
		151+23	62' RT	10	--
		151+39	50' RT	10	--
	STH 100	486+23	61' RT	20	--
		486+41	69' RT	12	--
		486+96	69' RT	12	--
		487+24	61' RT	12	--
		491+51	68' RT	12	--
		492+08	68' RT	12	--
		497+42	99' RT	12	--
		497+56	72' RT	12	--
		497+56	61' RT	12	--
		497+64	68' RT	12	--
		498+97	82' LT	12	--
		499+04	77' LT	12	--
		499+04	88' LT	12	--
		499+18	113' LT	12	--
		499+37	83' RT	12	--
		506+67	61' RT	10	--
		506+90	64' RT	--	15
		STAGE 3 SUBTOTAL		296	15
5	STH 57	104+92	67' LT	12	--
		105+58	50' RT	12	--
		105+58	10' RT	12	--
		105+62	67' LT	--	17
		105+84	58' LT	12	--
		105+84	10' LT	12	--
		TABLE TOTALS		356	32

Continued

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

DETECTABLE WARNING FIELDS

STAGE	ROADWAY	STATION	OFFSET	602.0505 CURB RAMP DETECTABLE WARNING FIELD YELLOW SF	602.0605 CURB RAMP DETECTABLE WARNING FIELD RADIAL YELLOW SF
5	STH 57	120+07	89' RT	12	--
		120+08	79' RT	12	--
		120+08	30' RT	12	--
		120+08	26' RT	12	--
		120+16	84' RT	12	--
		121+57	67' LT	12	--
		121+65	59' LT	12	--
		121+65	10' LT	12	--
		121+65	5' LT	12	--
		121+66	72' LT	12	--
		121+80	96' LT	12	--
		136+84	59' LT	12	--
		136+98	67' LT	12	--
		137+54	64' LT	12	--
		137+75	48' LT	12	--
		137+70	1' LT	8	--
		137+73	9' RT	8	--
		150+39	55' LT	--	12
		150+52	68' LT	--	12
		150+88	66' LT	10	--
		150+98	66' LT	10	--
		151+36	64' LT	10	--
		151+45	57' LT	10	--
	STH 100	486+23	61' RT	20	--
		486+57	69' LT	12	--
		487+18	69' LT	12	--
		487+24	65' LT	12	--
		491+37	70' LT	12	--
		491+95	73' LT	12	--
		STAGE 5 SUBTOTAL		376	41
6	STH 100	486+23	9' RT	20	--
		486+23	14' RT	20	--
		487+23	13' LT	12	--
		487+23	8' LT	12	--
		497+54	8' RT	12	--
		497+54	13' RT	12	--
		499+05	28' LT	12	--
		499+05	23' LT	12	--
		STAGE 6 SUBTOTAL		112	--
		TABLE TOTALS		428	24
		PROJECT TOTALS		784	56

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

3

MEDIAN NOSES

STAGE	ROADWAY	STATION	OFFSET	620.0300 CONCRETE MEDIAN SLOPED NOSE SF
3	STH 57	135+25	13' RT	59
		136+98	13' RT	59
		175+55	--	49
	STH 100	496+80	63' RT	50
		497+65	61' RT	22
		497+65	77' RT	18
		498+96	77' LT	22
		498+96	90' LT	18
		499+74	79' LT	50
		STAGE 3 SUBTOTAL		347
5	STH 57	104+90	11' LT	52
		105+10	9' RT	70
		117+64	26' RT	49
		119+61	81' RT	50
		119+84	6' LT	51
		120+16	78' RT	22
		120+16	93' RT	18
		120+19	28' RT	69
		121+54	8' LT	69
		121+57	76' LT	18
		121+57	58' LT	22
		121+89	26' RT	51
		122+23	61' LT	50
		124+52	10' LT	49
		136+79	8' LT	50
		STAGE 5 SUBTOTAL		690
		TABLE TOTALS		1037

Continued

3

MEDIAN NOSES

STAGE	ROADWAY	STATION	OFFSET	620.0300 CONCRETE MEDIAN SLOPED NOSE SF
6	STH 100	480+13	5' LT	87
		484+51	11' RT	69
		486+12	11' LT	50
		486+30	11' RT	57
		487+13	11' LT	69
		487+44	11' RT	50
		488+71	11' LT	49
		495+54	10' RT	69
		497+24	24' LT	51
		497+62	10' RT	69
		498+99	26' LT	70
		499+36	8' RT	51
		501+56	26' LT	50
		504+49	11' RT	61
		506+60	9' LT	56
		517+76	6' RT	60
		STAGE 6 SUBTOTAL		968
		TABLE TOTALS		968
		PROJECT TOTALS		2005

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

FIELD OFFICE

SPV.0060.05
FIELD FACILITIES
OFFICE SPACE

LOCATION	EACH
Project No. 2270-04-70	1
PROJECT TOTALS	1

TRAFFIC CONTROL

643.5000
TRAFFIC
CONTROL

LOCATION	EACH
Project No. 2270-04-70	1
PROJECT TOTALS	1

MOBILIZATION

619.1000
MOBILIZATION

LOCATION	EACH
Project No. 2270-04-70	1
PROJECT TOTALS	1

BIRD DETERRENCE

LOCATION	999.2000.S INSTALLING AND MAINTAINING BIRD DETERRENT SYSTEM 01. B-40-504 EACH	999.2000.S INSTALLING AND MAINTAINING BIRD DETERRENT SYSTEM 02. B-40-505 EACH
B-40-504	1	--
B-40-505	--	1
PROJECT TOTALS	1	1

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

3

PROGRESS SCHEDULE

108.4400
CPM PROGRESS SCHEDULE

LOCATION	EACH
Project No. 2270-04-70	1
PROJECT TOTALS	1

DUST CONTROL

624.0100* WATER
628.7560 TRACKING PADS

LOCATION	MGAL	EACH
Project No. 2270-04-70	200	12
PROJECT TOTALS	200	12

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

UTILITY LINE OPENING

SPV.0060.19
UTILITY LINE OPENING

LOCATION	EACH
Project No. 2270-04-70	12
PROJECT TOTALS	12

CURB RAMP GRADING

SPV.0060.06
CURB RAMP GRADING,SHAPING AND FINISHING

LOCATION	EACH
Project No. 2270-04-70	17
PROJECT TOTALS	17

FINISHING ROADWAY

213.0100
FINISHING ROADWAY
2270-04-70

LOCATION	EACH
Project No. 2270-04-70	1
PROJECT TOTALS	1

ALL ITEMS ARE CATEGORY 0040 UNLESS OTHERWISE NOTED

3

3

VILLAGE OF BROWN DEER

STAGE	ROADWAY	STATION	OFFSET	SPV.0060.12 RECONSTRUCTING VILLAGE OF BROWN DEER SANITARY MANHOLES EACH	SPV.0060.13 ADJUSTING VILLAGE OF BROWN DEER SANITARY MANHOLE COVERS EACH	204.0250 ABANDONING MANHOLES EACH	SPV.0060.14 ADJUSTING VILLAGE OF BROWN DEER WATER BOXES EACH
1	STH 100	478+36	2' RT	1	1	--	--
5	STH 57	117+80	97' LT	--	1	--	--
		117+80	132 'RT	--	1	--	--
		118+16	132' RT	--	--	1	--
		126+20	76' RT	--	--	--	1
		129+40	70' RT	--	--	--	2
		133+50	70' RT	--	--	--	1
		134+10	70' RT	--	--	--	2
	STH100	487+00	85' LT	--	--	--	2
		491+10	74' LT	--	--	--	1
		491+60	90' LT	--	--	--	2
		502+05	80' LT	--	--	--	1
		502+30	80' LT	--	--	--	1
		PROJECT TOTALS		1	3	1	13

CITY OF MEQUON

CATEGORY	ROADWAY	STATION	OFFSET	SPV.0060.16 ADJUSTING MEQUON WATER UTILITY WATER BOXES LF
0050	STH 57	230+45	126' RT	1
		230+63	79' RT	1
		231+72	108' LT	1
		PROJECT TOTALS		3

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

CONSTRUCTION STAKING

LOCATION	650.4000 CONSTRUCTION STAKING STORM SEWER EACH	650.4500 CONSTRUCTION STAKING SUBGRADE LF	650.7000 CONSTRUCTION STAKING CONCRETE PLAVEMENT LF	650.8000 CONSTRUCTION STAKING RESURFACING REFERENCE LF	650.8500 CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS (2270-04-70) LS	650.9000 CONSTRUCTION STAKING CURB RAMPS EACH	650.9910 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL 2270-04-70 LS	650.9920 CONSTRUCTION STAKING SLOPE STAKES LF	SPV.0165.01 CONSTRUCTION STAKING SIDEWALK SF
Project No. 2270-04-70	216	13313	11544	14499	1	75	1	13313	57278
PROJECT TOTALS	216	13313	11544	14499	1	75	1	13313	57278

SAWING

STAGE	ROADWAY	STATION	TO	STATION	OFFSET	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF
1	STH 57	121+24		128+57	160' LT	--	885
		121+27		121+68	186' LT	--	92
	STH 100	476+38		480+15	--	--	650
		482+03		482+03	61' LT	--	6
		482+25		486+16	14' LT	--	405
		482+33		482+33	77' RT	--	6
		483+81		483+81	65' RT	--	7
		484+82		484+82	61' LT	--	8
		488+68		491+30	--	--	300
		491+57		491+85	--	--	72
		492+23		496+35	--	--	615
		500+20		505+00	14' LT	--	485
		502+92		505+00	3' LT	--	210
		504+47		506+41	8' RT	--	400
		505+00		505+00	11' LT	--	12
		517+74		521+23	--	--	364
		522+79		524+51	16' RT	--	177
				STAGE 1 SUBTOTAL		--	4694
2	STH 100	486+16		486+31	14' LT	--	42
		496+84		499+44	--	--	541
		499+97		500+20	14' LT	--	56
				STAGE 2 SUBTOTAL		--	639
3	STH 57	104+00		104+00	LT	--	38
		104+00		104+00	RT	--	50
		137+09		137+84	RT/LT	105	457
		138+55		138+70	RT	--	17
		149+99		151+90	RT/LT	118	314
		172+50		174+75	RT/LT	53	--
		174+96		175+94	MED	148	--
		221+86		237+76	RT	2053	--
				TABLE TOALS		2477	6209

Continued

3

SAWING

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

STAGE	ROADWAY	STATION	TO	STATION	OFFSET	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF
3	STH 100	480+79		481+98	15' RT	--	129
		481+98		481+98	RT	--	42
		486+11		486+22	77' RT	--	11
		486+35		487+26	3' LT	--	92
		489+85		489+90	76' RT	--	5
		491+21		491+55	--	--	34
		491+58		491+64	107' RT	--	6
		491+77		492+19	5' RT	--	42
		492+00		492+06	104' RT	--	6
		496+35		497+91	14' RT	--	156
		499+24		499+96	8' RT	--	72
		501+21		507+06	53' RT	--	744
		503+67		503+67	63' LT	--	6
	Ruth Place	--		--	--	36	--
	Deerbrook Trail	--		--	--	39	--
	Deerwood Drive	--		--	--	34	--
	Kildeer Court South	--		--	--	142	--
				STAGE 3 SUBTOTAL		2728	2221
5	STH 57	136+99		173+99	--	--	2368
		137+11		137+11	68' LT	--	120
		173+99		281+98	--	--	2592
		177+25		177+80	LT	52	--
		190+10		190+45	LT	32	--
		196+30		196+85	LT	54	--
		206+25		206+75	LT	50	--
		213+15		213+70	LT	54	--
		231+23		234+07	LT	599	--
		240+86		241+48	LT	65	--
		260+90		261+60	LT	70	--
		281+98		281+98	--	34	--
	STH 100	481+97		481+97	LT	--	51
		484+67		484+68	120' LT	6	--
		486+18		486+29	105' LT	11	--
		491+18		491+24	83' LT	--	6
		506+12		506+12	73' LT	--	6
		506+60		506+60	LT	--	42
	Deerbrook Trail	--		--	--	45	--
	Deerwood Drive	--		--	--	56	--
				STAGE 5 SUBTOTAL		1128	5185
				TABLE TOTALS		1379	6530
				PROJECT TOTALS		3856	12739

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

3

REMOVING INLETS

STAGE	ROADWAY	STATION	OFFSET	204.0220 REMOVING INLETS EACH
3	STH 57	104+91.89	18' LT	1
		104+94.98	6' LT	1
		107+68.60	11' RT	1
		107+72.31	48' LT	1
		108+18.38	11' RT	1
		108+21.49	46' LT	1
		111+53.33	51' LT	1
		112+03.66	53' RT	1
		114+43.81	54' RT	1
		114+44.19	0' RT	1
		114+47.91	44' LT	1
		116+18.65	1' RT	1
		116+18.91	43' LT	1
		116+19.62	43' RT	1
		116+97.10	104' LT	1
		116+98.41	126' RT	1
		116+98.77	100' LT	1
		117+01.37	80' LT	1
		117+72.78	117' LT	1
		117+96.24	40' LT	1
		118+44.95	10' RT	1
		119+26.76	202' LT	1
		119+30.08	198' LT	1
		123+81.63	122' RT	1
		124+17.68	65' LT	1
		124+18.07	22' LT	1
		124+20.34	13' LT	1
		127+22.71	12' LT	1
		127+24.61	22' LT	1
		127+30.58	63' LT	1
		129+81.37	48' RT	1
		130+22.28	11' RT	1
		130+72.75	14' RT	1
		133+23.65	15' RT	1
		136+97.87	49' RT	1
		TABLE TOTALS		35

Continued

REMOVING INLETS

STAGE	ROADWAY	STATION	OFFSET	204.0220 REMOVING INLETS EACH
3	STH 100	484+39.00	54' RT	1
		488+21.75	57' RT	1
		489+10.89	79' RT	1
		489+22.18	54' RT	1
		491+32.67	55' RT	1
		493+54.05	56' RT	1
		496+24.43	82' RT	1
		496+37.52	50' RT	1
		496+66.15	43' RT	1
		496+86.77	66' RT	1
		497+79.24	43' RT	1
		498+30.11	44' RT	1
		499+53.73	67' RT	1
		499+77.05	51' RT	1
		499+99.21	52' RT	1
		500+23.49	66' RT	1
		501+48.90	48' RT	1
		504+51.16	55' RT	1
		STAGE 3 SUBTOTAL		53
4	STH 100	497+79.45	42' LT	1
		498+29.60	42' LT	1
		STAGE 4 SUBTOTAL		2
5	STH 57	124+42.40	175' LT	1
		127+23.34	15' LT	1
		127+63.31	118' LT	1
		127+80.86	82' LT	1
		130+11.38	58' LT	1
		130+61.22	51' LT	1
		133+28.09	40' LT	1
		135+51.42	46' LT	1
		TABLE TOTALS		28

Continued

REMOVING INLETS

STAGE	ROADWAY	STATION	OFFSET	204.0220 REMOVING INLETS EACH
5	STH 100	484+62.82	56' LT	1
		484+64.34	15' LT	1
		487+38.24	55' LT	1
		487+39.78	6' LT	1
		491+08.75	17' LT	1
		491+33.34	60' LT	1
		491+34.91	2' RT	1
		494+29.37	3' LT	1
		494+48.17	16' LT	1
		495+54.86	113' LT	1
		496+07.20	66' LT	1
		496+25.44	0' RT	1
		496+30.81	50' LT	1
		496+64.62	42' LT	1
		496+71.56	65' LT	1
		499+42.98	66' LT	1
		499+69.21	54' LT	1
		499+96.01	42' LT	1
		500+02.20	5' RT	1
		500+09.06	81' LT	1
		501+09.49	84' LT	1
		501+55.45	1' LT	1
		502+00.93	13' RT	1
		502+01.57	18' LT	1
		504+51.03	55' LT	1
		504+51.22	14' LT	1
		STAGE 5 SUBTOTAL		34
		TABLE TOTALS		26
		PROJECT TOTALS		89

3

REMOVING STORM SEWER

STAGE	ROADWAY	STATION	OFFSET	TO	STATION	OFFSET	204.0245.01 REMOVING STORM SEWER 12-INCH LF	204.0245.02 REMOVING STORM SEWER 15-INCH LF	204.0245.03 REMOVING STORM SEWER 18-INCH LF	204.0245.04 REMOVING STORM SEWER 24-INCH LF	204.0245.05 REMOVING STORM SEWER 30-INCH LF	204.0245.06 REMOVING STORM SEWER 36-INCH LF	204.0245.07 REMOVING STORM SEWER 42-INCH LF	204.0245.08 REMOVING STORM SEWER 48-INCH LF
3	STH 57	104+90.80	92' LT		105+06.06	94' LT	15	--	--	--	--	--	--	--
		104+93.99	19' LT		104+94.90	6' LT	12	--	--	--	--	--	--	--
		104+95.43	20' LT		107+67.38	1' LT	--	--	--	271	--	--	--	--
		105+08.75	92' LT		104+94.11	21' LT	--	--	73	--	--	--	--	--
		107+61.69	78' LT		107+69.99	48' LT	31	--	--	--	--	--	--	--
		107+68.60	11' RT		107+68.60	1' LT	12	--	--	--	--	--	--	--
		107+70.27	46' LT		107+68.91	2' LT	--	--	--	44	--	--	--	--
		107+70.39	1' LT		111+74.88	0' RT	--	--	--	--	--	404	--	--
		108+19.50	5' LT		108+19.52	13' RT	18	--	--	--	--	--	--	--
		108+19.94	45' LT		108+19.50	5' LT	40	--	--	--	--	--	--	--
		111+51.75	49' LT		111+75.89	1' LT	53	--	--	--	--	--	--	--
		111+77.86	0' RT		114+42.31	52' RT	--	--	--	--	--	--	270	--
		112+03.23	50' RT		111+76.94	1' RT	56	--	--	--	--	--	--	--
		114+44.41	1' RT		114+43.81	52' RT	50	--	--	--	--	--	--	--
		114+45.32	53' RT		116+97.32	123' RT	--	--	--	--	--	--	262	--
		114+47.83	42' LT		114+44.50	1' LT	42	--	--	--	--	--		--
		116+18.91	41' LT		116+19.30	1' LT	39	--	--	--	--	--	--	--
		116+19.31	1' RT		116+19.58	41' RT	40	--	--	--	--	--	--	--
		116+20.54	43' RT		116+97.85	123' RT	111	--	--	--	--	--	--	--
		116+98.88	100' LT		117+72.78	117' LT	76	--	--	--	--	--	--	--
		116+99.13	103' LT		116+99.26	99' LT	--	4	--	--	--	--	--	--
		116+99.26	97' LT		117+03.12	83' LT	15	--	--	--	--	--	--	--
		119+83.90	193' RT		120+07.31	199' RT	--	--	--	--	--	--	25	--
		117+04.87	81' LT		117+92.74	41' LT	--	98	--	--	--	--	--	--
		117+72.78	117' LT		119+30.08	198' LT	--	--	175	--	--	--	--	--
		117+94.25	39' LT		117+94.65	1' LT	39	--	--	--	--	--	--	--
		117+96.16	1' RT		118+43.45	8' RT	48	--	--	--	--	--	--	--
		119+26.76	154' LT		119+30.08	198' LT	5	--	--	--	--	--	--	--
		119+30.08	198' LT		120+00.41	198' LT	--	--	68	--	--	--	--	--
		121+16.05	176' RT		123+81.63	122' RT	275	--	--	--	--	--	--	--
		124+17.63	60' LT		124+20.37	24' LT	37	--	--	--	--	--	--	--
		124+20.35	20' LT		124+20.51	17' LT	3	--	--	--	--	--	--	--
		124+22.54	22' LT		127+22.59	22' LT	--	--	295	--	--	--	--	--
		127+24.31	20' LT		127+23.69	16' LT	4	--	--	--	--	--	--	--
		127+26.64	22' LT		130+21.22	1' RT	--	--	294	--	--	--	--	--
		127+30.29	61' LT		127+25.17	24' LT	38	--	--	--	--	--	--	--
		129+82.83	47' RT		130+21.49	11' RT	53	--	--	--	--	--	--	--
		130+23.15	3' RT		130+23.01	8' RT	5	--	--	--	--	--	--	--
		130+73.56	1' RT		130+73.46	10' RT	9	--	--	--	--	--	--	--
		133+24.16	8' RT		133+23.20	14' RT	7	--	--	--	--	--	--	--
					TABLE TOTALS		1,133	102	905	315	0	404	557	0

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

Continued

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

3

3

REMOVING STORM SEWER

STAGE	ROADWAY	STATION	OFFSET	TO	STATION	OFFSET	204.0245.01 REMOVING STORM SEWER 12-INCH LF	204.0245.02 REMOVING STORM SEWER 15-INCH LF	204.0245.03 REMOVING STORM SEWER 18-INCH LF	204.0245.04 REMOVING STORM SEWER 24-INCH LF	204.0245.05 REMOVING STORM SEWER 30-INCH LF	204.0245.06 REMOVING STORM SEWER 36-INCH LF	204.0245.07 REMOVING STORM SEWER 42-INCH LF	204.0245.08 REMOVING STORM SEWER 48-INCH LF
3	STH 100	484+25.00	54' RT		484+36.00	54' RT	--	--	--	--	--	12	--	--
		484+40.14	51' RT		484+52.52	17' RT	36	--	--	--	--	--	--	--
		484+40.14	57' RT		484+41.00	60' RT	3	--	--	--	--	--	--	--
		487+68.83	17' RT		488+21.21	56' RT	65	--	--	--	--	--	--	--
		488+23.16	55' RT		489+20.09	55' RT	94	--	--	--	--	--	--	--
		489+11.75	77' RT		489+21.30	56' RT	23	--	--	--	--	--	--	--
		489+24.63	55' RT		491+30.62	55' RT	200	--	--	--	--	--	--	--
		491+32.30	67' RT		491+32.61	57' RT	10	--	--	--	--	--	--	--
		491+32.77	54' RT		491+34.35	16' RT	37	--	--	--	--	--	--	--
		491+34.73	55' RT		493+52.04	54' RT	213	--	--	--	--	--	--	--
		493+55.67	53' RT		494+07.35	16' RT	--	63	--	--	--	--	--	--
		496+16.00	32' LT		496+24.05	1' LT	32	--	--	--	--	--	--	--
		496+25.41	81' RT		496+24.63	16' RT	--	--	68	--	--	--	--	--
		496+40.02	48' RT		496+66.15	42' RT	27	--	--	--	--	--	--	--
		496+68.15	43' RT		496+85.77	63' RT	27	--	--	--	--	--	--	--
		496+87.77	64' RT		497+62.74	14' RT	90	--	--	--	--	--	--	--
		497+66.40	13' RT		498+35.88	14' RT	--	--	--	--	69	--	--	--
		497+78.48	40' RT		497+65.31	14' RT	29	--	--	--	--	--	--	--
		498+30.52	41' RT		498+37.36	16' RT	26	--	--	--	--	--	--	--
		498+39.88	14' RT		498+83.15	10' RT	--	--	--	--	43	--	--	--
		499+56.23	65' RT		499+76.05	50' RT	24	--	--	--	--	--	--	--
		499+78.05	50' RT		499+98.21	50' RT	20	--	--	--	--	--	--	--
		500+00.21	51' RT		500+21.49	64' RT	--	--	--	--	--	--	--	25
		500+07.11	16' RT		500+22.02	63' RT	--	--	--	--	--	--	50	--
		501+48.89	46' RT		501+51.90	16' RT	--	--	30	--	--	--	--	--
		505+68.57	64' RT		506+98.10	121' RT	--	--	--	--	--	--	--	151
		506+98.10	121' RT		507+82.70	206' RT	--	--	--	--	--	--	--	116
					STAGE 3 SUBTOTALS		2,089	165	1,003	315	112	416	607	292
4	STH 57	117+00.32	124' RT		119+83.90	193' RT	--	--	--	--	--	--	295	--
	STH 100	497+69.88	7' LT		497+78.92	40' LT	33	--	--	--	--	--	--	--
		498+37.59	12' RT		498+29.90	40' LT	52	--	--	--	--	--	--	--
					STAGE 4 SUBTOTALS		85	0	0	0	0	0	295	0
					TABLE TOTALS		1,041	63	98	0	112	12	345	292

Continued

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

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3

REMOVING STORM SEWER

STAGE	ROADWAY	STATION	OFFSET	TO	STATION	OFFSET	204.0245.01 REMOVING STORM SEWER 12-INCH LF	204.0245.02 REMOVING STORM SEWER 15-INCH LF	204.0245.03 REMOVING STORM SEWER 18-INCH LF	204.0245.04 REMOVING STORM SEWER 24-INCH LF	204.0245.05 REMOVING STORM SEWER 30-INCH LF	204.0245.06 REMOVING STORM SEWER 36-INCH LF	204.0245.07 REMOVING STORM SEWER 42-INCH LF	204.0245.08 REMOVING STORM SEWER 48-INCH LF
5	STH 57	124+42.40	175' LT		127+63.31	118' LT	296	--	--	--	--	--	--	--
		127+63.31	118' LT		127+82.76	140' LT	26	--	--	--	--	--	--	--
		127+63.31	118' LT		127+80.86	82' LT	38	--	--	--	--	--	--	--
		127+63.31	118' LT		130+10.47	57' LT	250	--	--	--	--	--	--	--
		130+12.78	54' LT		130+22.84	5' LT	--	--	50	--	--	--	--	--
		130+15.18	74' LT		130+12.71	58' LT	--	--	16	--	--	--	--	--
		130+62.06	48' LT		130+61.80	1' RT	49	--	--	--	--	--	--	--
		133+25.80	38' LT		133+24.50	4' RT	41	--	--	--	--	--	--	--
		135+48.10	72' LT		135+50.43	46' LT	--	--	--	26	--	--	--	--
		135+50.54	42' LT		135+49.16	1' LT	--	--	--	42	--	--	--	--
		136+76.46	76' LT		137+07.16	76' LT	30	--	--	--	--	--	--	--
	STH100	484+52.52	17' RT		484+64.30	16' LT	34	--	--	--	--	--	--	--
		484+64.33	17' LT		484+62.86	53' LT	36	--	--	--	--	--	--	--
		487+39.42	6' LT		487+37.82	51' LT	46	--	--	--	--	--	--	--
		487+40.35	4' LT		487+68.83	17' RT	35	--	--	--	--	--	--	--
		491+11.04	17' LT		491+33.85	57' LT	46	--	--	--	--	--	--	--
		491+11.66	14' LT		491+33.26	1' RT	26	--	--	--	--	--	--	--
		491+34.35	16' RT		491+34.83	4' RT	11	--	--	--	--	--	--	--
		494+07.35	16' RT		494+26.94	3' RT	--	24	--	--	--	--	--	--
		495+58.70	111' LT		496+05.74	67' LT	64	--	--	--	--	--	--	--
		494+31.83	1' LT		494+48.67	13' LT	21	--	--	--	--	--	--	--
		494+32.38	0' RT		496+23.44	0' RT	--	--	191	--	--	--	--	--
		496+07.71	64' LT		496+16.00	32' LT	33	--	--	--	--	--	--	--
		496+24.63	16' RT		496+24.46	2' RT	--	--	14	--	--	--	--	--
		496+25.44	1' LT		496+48.36	32' LT	38	--	--	--	--	--	--	--
		496+25.44	0' RT		497+62.41	12' RT	--	--	--	138	--	--	--	--
		496+48.36	32' LT		496+54.88	41' LT	11	--	--	--	--	--	--	--
		496+33.31	48' LT		496+54.12	43' LT	21	--	--	--	--	--	--	--
		496+58.06	42' LT		496+60.63	42' LT	3	--	--	--	--	--	--	--
		496+63.40	44' LT		496+70.93	62' LT	19	--	--	--	--	--	--	--
		497+64.93	11' RT		497+69.88	7' LT	19	--	--	--	--	--	--	--
		498+83.15	10' RT		499+97.20	1' RT	--	--	--	--	114	--	--	--
					TABLE TOTALS		1,193	24	271	206	114	0	0	0

Continued

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

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3

REMOVING STORM SEWER

STAGE	ROADWAY	STATION	OFFSET	TO	STATION	OFFSET	204.0245.01 REMOVING STORM SEWER 12-INCH LF	204.0245.02 REMOVING STORM SEWER 15-INCH LF	204.0245.03 REMOVING STORM SEWER 18-INCH LF	204.0245.04 REMOVING STORM SEWER 24-INCH LF	204.0245.05 REMOVING STORM SEWER 30-INCH LF	204.0245.06 REMOVING STORM SEWER 36-INCH LF	204.0245.07 REMOVING STORM SEWER 42-INCH LF	204.0245.08 REMOVING STORM SEWER 48-INCH LF
5	STH 100	499+46.44	64' LT		499+65.75	53' LT	22	--	--	--	--	--	--	--
		499+69.38	51' LT		499+94.13	42' LT	26	--	--	--	--	--	--	--
		499+96.30	40' LT		500+01.46	5' LT	--		36	--	--	--	--	--
		499+96.67	44' LT		500+08.40	77' LT	35	--	--	--	--	--	--	--
		499+97.69	43' LT		500+07.85	49' LT	12	--	--	--	--	--	--	--
		500+03.69	5' RT		500+07.11	16' RT	--	--	--	--	--	--	11	--
		500+07.19	0' RT		501+50.83	1' RT	--	--	--	--	--	--	144	--
		501+09.66	80' LT		501+36.41	31' LT	--	56	--	--	--	--	--	--
		501+36.41	31' LT		501+52.14	1' LT	--	33	--	--	--	--	--	--
		501+51.90	16' RT		501+53.10	3' RT	--	--	13	--	--	--	--	--
		502+00.92	9' RT		502+00.98	4' RT	5	--	--	--	--	--	--	--
		502+00.98	4' RT		502+01.52	14' LT	18	--	--	--	--	--	--	--
		504+51.04	51' LT		504+51.21	18' LT	33	--	--	--	--	--	--	--
		504+51.87	6' LT		504+51.87	14' LT	7	--	--	--	--	--	--	--
					STAGE 5 SUBTOTALS		1,351	113	320	206	114	0	155	0
					TABLE TOTALS		158	89	49	0	0	0	155	0
					PROJECT TOTALS		3,525	278	1,323	521	226	416	1,057	292

GRANULAR BACKFILL

LOCATION	209.1500 BACKFILL GRANULAR GRADE 1 TON
PROJECT ID 2270-04-70	10,238
PROJECT TOTALS	10,238

ABANDONING STORM SEWER

STAGE	ROADWAY	STATION	TO	STATION	OFFSET	PIPE ID INCH	LENGTH LF	204.0291.S ABANDONING SEWER CY
3	STH 57	137+01		137+72	2' RT	12	84	2
	STH 100	501+56		504+71	22' RT	48	316	147
		504+52		504+51	32' RT	12	32	1
				PROJECT TOTALS				150

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

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ADJUSTING STRUCTURES

STAGE	ROADWAY	STRUCTURE ID	STATION	OFFSET	EXISTING RIM ELEVATION	TO	PROPOSED RIM ELEVATION	611.8110 ADJUSTING MANHOLE COVERS EACH	611.8115* ADJUSTING INLET COVERS EACH
3	STH 100	E621	481+08	17' RT	653.44		NOTE 1	--	1
		E651	491+64	103' RT	665.67		665.61	--	1
		E655	491+90	104' RT	666.11		666.08	1	--
		E653	491+99	99' RT	665.61		665.75	--	1
		E887	504+51	14' RT	655.37		NOTE 1	--	1
							STAGE 3 SUBTOTAL	1	4
5	STH 57	E429	137+07	77' LT	653.44		NOTE 1	--	1
		E427	137+51	76' LT	653.54		NOTE 1	--	1
	STH 100	E885	504+52	7' LT	654.91		NOTE 1	--	1
							STAGE 5 SUBTOTAL	0	3
							PROJECT TOTALS	1	7

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

NOTES

1. MATCH FLOW LINE OR REPLACED CONCRETE CURB AND GUTTER
2. VERIFY EXISTING RIM ELEVATION IN FIELD

REMOVING MANHOLES

STAGE	ROADWAY	STATION	OFFSET	204.0210 REMOVING MANHOLES EACH
3	STH 57	105+06.13	94' LT	1
		107+68.60	1' LT	1
		111+75.75	1' RT	1
		117+94.14	0' RT	1
	STH 100	506+98.10	121' RT	1
		STAGE 3 SUBTOTAL		5
4	STH 100	497+64.40	13' RT	1
		498+37.88	14' RT	1
		STAGE 4 SUBTOTAL		2
5	STH 57	130+22.66	1' RT	1
	STH 100	496+56.07	43' LT	1
		500+11.23	52' LT	1
		STAGE 5 SUBTOTAL		3
		PROJECT TOTALS		10

RECONSTRUCTING STRUCTURES

STAGE	ROADWAY	STRUCTURE ID	STATION	OFFSET	EXISTING RIM ELEVATION	TO	PROPOSED RIM ELEVATION	611.0430 RECONSTRUCTING INLETS EACH
3	STH 57	E389	133+25	6' RT	652.91		653.41	1
		E403	135+49	1' RT	654.09		653.63	1
	STH 100	E615	482+63	54' RT	665.40		665.83	1
							PROJECT TOTALS	3

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

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SALVAGING ENDWALL

STAGE	ROADWAY	STATION	OFFSET	PIPE ID	524.0612 APRON ENDWALLS FOR CULVERT PIPE SALVAED 12-INCH EACH
5	STH 57	134+23.73	86' LT	EXIST OFFSITE	1
				PROJECT TOTALS	1

APRON ENDWALLS AND PIPE GATES

STAGE	ROADWAY	PIPE ID	ENDWALL ID	ENDWALL ELEVATION	ENDWALL STATION	OFFSET	522.1015 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 15-INCH EACH	522.1018 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 18-INCH EACH	522.1036 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 36-INCH EACH	522.1054 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 54-INCH EACH	611.9800.S PIPE GRATES EACH	633.5200 MARKERS CULVERT END EACH
3	STH 57	P162	161	649.42	107+71.50	91.0' LT	--	1	--	--	1	1
	STH 100	P916	917	640.32	507+83.76	206.8' RT	--	--	--	1	1	1
					STAGE 3 SUBTOTALS		--	1	--	1	2	2
5	STH 57	P430	430A	649.19	136+56.49	84.5' LT	1	--	--	--	--	1
	STH 100	P922	921	646.32	501+21.03	121.3' LT	--	--	1	--	1	1
					STAGE 5 SUBTOTALS		1	--	1	--	1	2
					PROJECT TOTALS		1	1	1	1	3	4

NOTES

1) ENDWALL ELEVATION / STATION / OFFSET ARE TO END CENTER OF ENDWALL
2) PIPE LENGTHS AND SLOPES ARE MEASURED TO THE END OF PIPE

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

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CONNECT TO EXISTING

STAGE	ROADWAY	STRUCTURE ID	STATION	OFFSET	SPV.0060.03 PIPE CONNECTION TO EXISTING STRUCTURE EACH
3	STH 57	E389	133+25	6' RT	2
		E403	135+49	1' RT	2
				STAGE 3 SUBTOTAL	4
5	STH 57	E429	137+07	77' LT	1
	STH 100	E885	504+52	7' LT	1
				STAGE 5 SUBTOTAL	2
				PROJECT TOTAL	6

CONCRETE COLLARS

STAGE	ROADWAY	STATION	OFFSET	PIPE ID	SIZE (INCH)	520.8000 CONCRETE COLLARS FOR PIPE EACH
1	STH 100	483+45	54' RT	PE612	36	1
		483+50	54' RT	PE584	36	1
				STAGE 1 SUBTOTAL		2
3	STH 57	131+37	2' RT	PE352	36	1
		131+43	2' RT	PE368	36	1
		136+69	1' RT	PE412	42	1
		136+74	1' RT	PE438	42	1
	STH 100	484+25	54' RT	PE584	36	1
		484+41	60' RT	PE582	24	1
		505+63	61' RT	PE890	48	1
		507+03	119' RT	PE914	12	1
				STAGE 3 SUBTOTAL		8
5	STH 57	127+57	120' LT	PE340	8	1
	STH 100	502+90	95' LT	PE926	36	1
				STAGE 5 SUBTOTAL		2
				PROJECT TOTAL		12

CONTROL OF WATER STORM SEWER

LOCATION	SPV.0105.01 CONTROL OF WATER STORM SEWER LS
UNDISTRIBUTED	1
PROJECT TOTALS	1

STORM SEWER STRUCTURES											STORM SEWER PIPES											
ROADWAY	STRUCTURE NO.	STRUCTURE STAGE	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH [1] (FT)	STRUCTURE COMMENTS	PIPE ID	PIPE STAGE	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE[A] %	PIPE LENGTH [B] (FT)	PLAN LENGTH [C] (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
STH 57	101	3	104+74.99	48.0	RT	657.91	CATCH BASINS 4-FT DIAMETER	H	8.11	---	P102	3	101	103	651.80	651.16	1.50	42	46	III	15	---
STH 57	103	3	104+74.46	2.4	LT	657.09	CATCH BASINS 4-FT DIAMETER	H	7.93	---	P104	3	103	109	651.16	651.11	0.50	10	15	III	15	---
STH 57	105	3	104+87.70	91.3	LT	653.60	INLETS MEDIAN 1 GRATE	MS	2.18	---	P106	3	105	107	651.42	651.37	0.30	18	21	IV	12	---
STH 57	107	3	104+98.19	74.1	LT	656.07	CATCH BASINS 4-FT DIAMETER	H-S	6.70	---	P108	3	107	109	651.37	651.20	0.30	58	63	IV	15	---
STH 57	109	3	104+74.95	12.0	LT	657.23	CATCH BASINS 6-FT DIAMETER	H	8.78	---	P110	3	109	135	650.45	649.95	0.30	170	176	IV	24	---
STH 57	121	3	105+65.71	12.0	RT	656.89	CATCH BASINS 4-FT DIAMETER	H	6.83	---	P122	3	121	125	652.06	650.83	1.50	82	86	IV	15	---
STH 57	123	3	106+50.74	45.0	RT	657.08	CATCH BASINS 4-FT DIAMETER	H	7.88	---	P124	3	123	125	651.20	650.83	1.50	25	29	IV	15	---
STH 57	125	3	106+50.83	12.0	RT	656.46	CATCH BASINS 4-FT DIAMETER	H	7.63	---	P126	3	125	135	650.83	650.69	1.50	10	14	IV	15	---
STH 57	127	3	107+00.06	57.0	LT	655.20	CATCH BASINS 4-FT DIAMETER	H	6.06	---	P128	3	127	129	651.14	650.92	0.50	44	48	IV	15	---
STH 57	129	3	106+51.12	57.0	LT	655.25	CATCH BASINS 4-FT DIAMETER	H	6.33	---	P130	3	129	133	650.92	650.74	0.50	37	41	IV	15	---
STH 57	131	3	107+00.01	12.0	LT	656.38	CATCH BASINS 4-FT DIAMETER	H	7.42	---	P132	3	131	133	650.96	650.74	0.50	45	49	IV	15	---
STH 57	133	3	106+50.94	12.0	LT	656.43	CATCH BASINS 4-FT DIAMETER	H	7.69	---	P134	3	133	135	650.74	650.69	0.50	10	14	IV	15	---
STH 57	135	3	106+51.06	0.0	RT	656.94	MANHOLES 5-FT DIAMETER	J-SPECIAL	6.99	---	P136	3	135	167	649.95	649.61	0.30	112	118	IV	24	---
STH 57	151	3	108+17.08	45.0	RT	656.51	CATCH BASINS 4-FT DIAMETER	H-S	7.87	---	P152	3	151	153	650.64	650.41	0.50	45	49	III	15	---
STH 57	153	3	107+68.70	45.0	RT	656.56	CATCH BASINS 4-FT DIAMETER	H	8.15	---	P154	3	153	157	650.41	650.29	0.50	25	29	III	15	---
STH 57	155	3	108+17.08	12.0	RT	655.89	CATCH BASINS 4-FT DIAMETER	H-S	7.38	---	P156	3	155	157	650.51	650.29	0.50	45	49	IV	15	---
STH 57	157	3	107+68.68	12.0	RT	655.94	CATCH BASINS 4-FT DIAMETER	H	7.65	---	P158	3	157	167	650.29	650.24	0.50	10	15	III	15	---
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STH 57	163	3	107+68.64	57.0	LT	655.33	CATCH BASINS 4-FT DIAMETER	H	8.29	---	P164	3	163	165	649.04	648.93	0.30	37	41	IV	24	---
STH 57	165	3	107+68.64	12.0	LT	656.51	CATCH BASINS 4-FT DIAMETER	H	9.58	---	P166	3	165	167	648.93	648.91	0.30	8	13	III	24	---

[1] DEPTH = RIM OR FLOW ELEV - LOWEST PIPE INVERT ELEVATION
[2] MATCH FLOW LINE OF REPLACED CONCRETE CURB AND GUTTER

[A] SLOPE CALCULATED BASED ON PIPE LENGTH. PIPE LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE

[B] PIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. NOT INTENDED FOR PAY QUANTITY.

[C] PLAN LENGTH SHOWN FOR PAY QUANTITY.

STORM SEWER STRUCTURES											STORM SEWER PIPES											
ROADWAY	STRUCTURE NO.	STRUCTURE STAGE	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH [1] (FT)	STRUCTURE COMMENTS	PIPE ID	PIPE STAGE	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE[A] %	PIPE LENGTH [B] (FT)	PLAN LENGTH [C] (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
STH 57	167	3	107+68.66	0.8	LT	656.74	MANHOLES 6-FT DIAMETER	J-SPECIAL	8.15	---	P168	3	167	187	648.59	647.99	0.30	200	206	III	36	---
STH 57	181	3	109+75.00	45.0	RT	657.07	CATCH BASINS 4-FT DIAMETER	H	8.82	---	P182	3	181	183	650.25	649.88	1.50	25	29	III	15	---
STH 57	183	3	109+75.01	12.0	RT	656.45	CATCH BASINS 4-FT DIAMETER	H	8.57	---	P184	3	183	187	649.88	649.75	1.50	9	14	III	15	---
STH 57	185	3	109+75.02	12.0	LT	657.51	CATCH BASINS 4-FT DIAMETER	H	9.72	---	P186	3	185	187	649.79	649.75	0.50	9	14	III	15	---
STH 57	187	3	109+74.99	0.1	LT	657.48	MANHOLES 6-FT DIAMETER	J-SPECIAL	9.49	---	P188	3	187	221	647.99	647.41	0.30	194	200	III	36	---
STH 57	201	3	110+75.00	45.9	RT	657.34	CATCH BASINS 4-FT DIAMETER	H-S	7.93	---	P202	3	201	205	651.41	650.93	0.50	96	100	III	15	---
STH 57	203	3	113+00.05	54.8	RT	657.93	CATCH BASINS 4-FT DIAMETER	H	8.39	---	P204	3	203	205	651.54	650.93	0.50	121	125	III	15	---
STH 57	205	3	111+75.00	49.8	RT	657.39	CATCH BASINS 4-FT DIAMETER	H	8.46	---	P206	3	205	209	650.93	650.78	0.50	30	34	III	15	---
STH 57	207	3	110+75.00	12.0	RT	657.08	CATCH BASINS 4-FT DIAMETER	H	7.82	---	P208	3	207	209	651.26	650.78	0.50	96	100	III	15	---
STH 57	209	3	111+74.98	12.0	RT	657.59	CATCH BASINS 4-FT DIAMETER	H	8.81	---	P210	3	209	221	650.78	650.73	0.50	9	14	III	15	---
STH 57	211	3	109+75.00	57.0	LT	656.34	CATCH BASINS 4-FT DIAMETER	H	8.01	---	P212	3	211	213	650.33	649.86	0.50	94	98	III	15	---
STH 57	213	3	110+74.98	57.0	LT	657.07	CATCH BASINS 4-FT DIAMETER	H	9.21	---	P214	3	213	217	649.86	649.38	0.50	96	100	III	15	---
STH 57	215	3	113+00.00	57.0	LT	658.19	CATCH BASINS 4-FT DIAMETER	H	9.60	---	P216	3	215	217	650.59	649.38	1.00	121	125	III	15	---
STH 57	217	3	111+75.00	57.0	LT	657.57	CATCH BASINS 4-FT DIAMETER	H	10.19	---	P218	3	217	219	649.38	649.20	0.50	37	41	III	15	---
STH 57	219	3	111+75.01	12.0	LT	657.91	CATCH BASINS 4-FT DIAMETER	H	10.71	---	P220	3	219	221	649.20	649.16	0.50	9	14	III	15	---
STH 57	221	3	111+75.02	0.3	LT	658.29	MANHOLES 6-FT DIAMETER	J-SPECIAL	10.88	---	P222	3	221	235	647.41	646.62	0.30	265	271	III	36	---
STH 57	233	3	114+33.57	74.0	RT	656.70	INLETS MEDIAN 1 GRATE	MS	5.94	---	P234	3	233	235	650.76	650.42	0.50	69	73	III	15	---
STH 57	235	3	114+45.84	2.1	RT	659.31	MANHOLES 6-FT DIAMETER	J-SPECIAL	12.69	---	P236	3	235	237	646.62	646.07	0.30	182	188	III	36	---
STH 57	237	3	116+25.00	57.0	LT	658.17	CATCH BASINS 5-FT DIAMETER	H	14.10	---	P238	3	237	239	646.07	645.78	0.30	95	100	III	36	---
STH 57	239	3	117+25.00	57.0	LT	657.38	MANHOLES 5-FT DIAMETER	H	11.60	---	P240	3	239	241	645.78	645.50	0.30	95	100	III	36	---

[1] DEPTH = RIM OR FLOW ELEV - LOWEST PIPE INVERT ELEVATION
[2] MATCH FLOW LINE OF REPLACED CONCRETE CURB AND GUTTER

[A] SLOPE CALCULATED BASED ON PIPE LENGTH. PIPE LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE

[B] PIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. NOT INTENDED FOR PAY QUANTITY.

[C] PLAN LENGTH SHOWN FOR PAY QUANTITY.

STORM SEWER STRUCTURES											STORM SEWER PIPES											
ROADWAY	STRUCTURE NO.	STRUCTURE STAGE	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH [1] (FT)	STRUCTURE COMMENTS	PIPE ID	PIPE STAGE	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE[A] %	PIPE LENGTH [B] (FT)	PLAN LENGTH [C] (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
STH 57	241	3	118+24.98	57.0	LT	656.38	MANHOLES 5-FT DIAMETER	H	10.88	---	P242	3	241	283	645.50	645.14	0.30	119	125	III	36	---
STH 57	253	3	116+24.99	71.5	RT	657.46	CATCH BASINS 4-FT DIAMETER	H	7.92	---	P254	3	253	257	651.54	650.09	1.50	96	100	III	15	---
STH 57	255	3	116+98.73	126.5	RT	655.71	INLETS 4-FT DIAMETER	B	5.38	---	P256	3	255	257	650.33	650.09	0.50	48	52	III	15	---
STH 57	257	3	117+24.92	83.5	RT	656.40	CATCH BASINS 4-FT DIAMETER	H	8.31	---	P258	3	257	259	650.09	648.65	1.50	96	100	III	15	---
STH 57	259	3	118+25.00	87.4	RT	655.40	INLETS 4-FT DIAMETER	H	6.95	---	P260	3	259	261	648.45	647.84	0.50	123	127	III	18	---
STH 57	261	3	119+49.63	100.0	RT	653.95	CATCH BASINS 4-FT DIAMETER	H	8.11	---	P262	3	261	263	647.84	647.54	0.50	60	64	III	18	---
STH 57	263	3	119+50.01	32.0	RT	654.93	CATCH BASINS 4-FT DIAMETER	H	9.41	---	P264	3	263	269	647.52	647.48	0.50	8	13	III	18	---
STH 57	264A	3	119+95.98	89.7	RT	653.90	CATCH BASINS 4-FT DIAMETER	H	7.69	---	P264B	3	264A	264C	648.21	648.15	0.50	12	16	III	15	---
STH 57	264C	3	119+97.39	77.6	RT	654.19	CATCH BASINS 4-FT DIAMETER	H	8.04	---	P264D	3	264C	265	648.15	647.96	0.50	38	42	III	15	---
STH 57	265	3	119+93.15	32.0	RT	654.65	CATCH BASINS 4-FT DIAMETER	H	8.69	---	P266	3	265	267	647.96	647.92	0.50	8	12	III	15	---
STH 57	267	3	119+93.14	24.0	RT	654.79	CATCH BASINS 4-FT DIAMETER	H	9.62	---	P268	3	267	269	647.17	646.98	0.50	39	43	III	24	---
STH 57	269	3	119+50.01	24.0	RT	655.07	CATCH BASINS 5-FT DIAMETER	H	10.09	---	P270	3	269	279	646.98	646.81	0.95	18	23	III	24	---
STH 57	271	3	116+25.03	12.0	LT	658.51	CATCH BASINS 4-FT DIAMETER	H	9.43	---	P272	3	271	273	651.08	650.80	1.50	19	23	III	15	---
STH 57	273	3	116+24.93	6.8	RT	657.58	CATCH BASINS 5-FT DIAMETER	H	9.53	---	P274	3	273	277	650.05	648.10	1.00	195	200	III	24	---
STH 57	275	3	118+24.98	12.0	LT	656.72	INLETS 4-FT DIAMETER	H	7.80	---	P276	3	275	277	648.92	648.84	1.00	8	13	III	15	---
STH 57	277	3	118+24.95	4.0	LT	655.64	MANHOLES 5-FT DIAMETER	H	7.56	---	P278	3	277	279	648.08	646.81	1.07	120	125	III	24	---
STH 57	279	3	119+50.00	4.0	LT	654.94	CATCH BASINS 5-FT DIAMETER	H-S	10.14	---	P280	3	279	281	646.80	646.68	1.50	8	13	III	24	---
STH 57	281	3	119+50.02	12.0	LT	655.47	CATCH BASINS 4-FT DIAMETER	H	10.79	---	P282	3	281	283	646.68	646.14	1.50	36	41	III	24	---
STH 57	283	3	119+49.99	57.9	LT	655.40	CATCH BASINS 6-FT DIAMETER	H	12.26	---	P284	3	283	297	645.14	645.03	0.30	38	44	III	36	---
STH 100	295	3	496+69.50	112.5	RT	651.94	INLETS MEDIAN 1 GRATE	MS	4.90	---	P296	3	295	297	647.04	646.77	0.50	55	59	III	15	---

[1] DEPTH = RIM OR FLOW ELEV - LOWEST PIPE INVERT ELEVATION
[2] MATCH FLOW LINE OF REPLACED CONCRETE CURB AND GUTTER

[A] SLOPE CALCULATED BASED ON PIPE LENGTH. PIPE LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE

[B] PIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. NOT INTENDED FOR PAY QUANTITY.

[C] PLAN LENGTH SHOWN FOR PAY QUANTITY.

STORM SEWER STRUCTURES											STORM SEWER PIPES											
ROADWAY	STRUCTURE NO.	STRUCTURE STAGE	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH [1] (FT)	STRUCTURE COMMENTS	PIPE ID	PIPE STAGE	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE[A] %	PIPE LENGTH [B] (FT)	PLAN LENGTH [C] (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
STH 100	297	3	497+28.32	112.0	RT	654.31	MANHOLES 6-FT DIAMETER	C	9.29	---	P298	4A	297	299	645.02	644.97	0.30	18	24	III	36	---
STH 100	299	3	497+24.88	91.0	RT	654.93	CATCH BASINS 6-FT DIAMETER	H-S	12.46	---	P299A	3	299	300	644.47	644.45	0.30	7	13	III	42	---
STH 100	300	3	497+28.75	72.4	RT	655.22	CATCH BASINS 6-FT DIAMETER	H-S	12.79	---	P300A	3	300	301	644.43	644.38	0.30	17	23	III	42	---
STH 100	301	3	497+42.01	59.5	RT	655.49	MANHOLES 6-FT DIAMETER	H	11.11	---	P302	3	301	775	644.38	644.29	0.30	31	38	III	42	---
STH 57	321	5	128+00.06	57.0	LT	651.66	CATCH BASINS 4-FT DIAMETER	H-S	6.16	---	P322	3	321	323	647.50	646.81	1.00	69	74	IV	15	---
STH 57	323	3	127+99.94	16.3	RT	652.89	CATCH BASINS 5-FT DIAMETER	H	8.83	---	P324	3	323	351	646.06	645.40	0.30	219	224	IV	24	---
STH 57	335	3	130+23.12	61.0	RT	651.94	INLETS 4-FT DIAMETER	H	5.55	---	P336	3	335	337	646.39	646.21	0.50	37	41	III	15	---
STH 57	337	3	130+23.11	16.0	RT	652.28	CATCH BASINS 4-FT DIAMETER	H	8.07	---	P338	3	337	351	646.21	646.15	0.50	12	17	III	15	---
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STH 57	341	5	127+65.93	119.0	LT	652.13	INLETS MEDIAN 1 GRATE	MS	3.74	---	P342	5	341	343	648.39	648.03	1.00	36	40	III	12	---
STH 57	343	5	127+81.62	82.3	LT	652.67	INLETS 4-FT DIAMETER	B	4.89	---	P344	5	343	321	647.78	647.50	1.00	28	32	III	15	---
STH 57	345	5	129+90.98	81.6	LT	649.20	INLETS MEDIAN 2 GRATE	MS	3.42	---	P346	5	345	347	645.78	645.62	0.50	33	37	III	24	---
STH 57	347	5	130+16.60	57.0	LT	651.03	CATCH BASINS 4-FT DIAMETER	H-S	7.41	---	P348	4	347	349	645.62	645.43	0.50	36	41	IV	30	---
STH 57	349	5	130+21.45	12.0	LT	651.37	CATCH BASINS 5-FT DIAMETER	H-S	7.94	---	P350	3	349	351	645.43	645.40	0.30	10	16	IV	30	---
STH 57	351	3	130+23.12	0.9	RT	652.02	MANHOLES 6-FT DIAMETER	J-SPECIAL	7.62	---	PE352	---	351	367	644.40	644.14	---	---	---	---	36	EXIST PIPE INTERPOL ELEV
STH 57	363	3	131+40.00	61.0	RT	651.59	INLETS 4-FT DIAMETER	H-S	5.06	---	P364	3	363	365	646.53	645.97	1.50	37	41	IV	15	---
STH 57	365	3	131+40.00	16.0	RT	651.93	CATCH BASINS 4-FT DIAMETER	H-S	7.96	---	P366	3	365	367	645.97	645.80	1.50	11	16	III	15	---
STH 57	367	3	131+39.99	1.8	RT	652.76	MANHOLES 6-FT DIAMETER	J-SPECIAL	8.64	---	PE368	---	367	E389	644.12	---	---	---	---	---	36	EXIST PIPE INTERPOL ELEV
STH 57	381	3	133+24.62	61.0	RT	652.32	INLETS 4-FT DIAMETER	H	6.38	---	P382	3	381	383	645.94	645.76	0.50	37	41	III	15	---
STH 57	383	3	133+24.62	16.0	RT	652.66	CATCH BASINS 4-FT DIAMETER	H	8.90	---	P384	5	383	E389	645.76	645.72	0.50	7	12	III	15	---

[1] DEPTH = RIM OR FLOW ELEV - LOWEST PIPE INVERT ELEVATION
[2] MATCH FLOW LINE OF REPLACED CONCRETE CURB AND GUTTER

[A] SLOPE CALCULATED BASED ON PIPE LENGTH. PIPE LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE

[B] PIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. NOT INTENDED FOR PAY QUANTITY.

[C] PLAN LENGTH SHOWN FOR PAY QUANTITY.

STORM SEWER STRUCTURES											STORM SEWER PIPES											
ROADWAY	STRUCTURE NO.	STRUCTURE STAGE	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH [1] (FT)	STRUCTURE COMMENTS	PIPE ID	PIPE STAGE	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE[A] %	PIPE LENGTH [B] (FT)	PLAN LENGTH [C] (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
STH 57	385	5	133+24.61	57.0	LT	652.32	CATCH BASINS 4-FT DIAMETER	H	8.35	---	P386	4	385	387	645.97	645.79	0.50	37	41	III	15	---
STH 57	387	5	133+24.60	12.0	LT	652.66	CATCH BASINS 4-FT DIAMETER	H	8.87	---	P388	3	387	E389	645.79	645.72	0.50	15	20	III	15	---
STH 57	E389	---	133+24.63	5.7	RT	652.91	---	J-SPECIAL	---	ADJUST TO FINISHED GRADE & INSTALL COVER	PE390	---	E389	E403	---	---	---	---	---	---	42	---
STH 57	401	3	135+50.00	61.0	RT	653.45	INLETS 4-FT DIAMETER	H	7.91	---	P402	3	401	402A	645.54	645.35	0.50	39	42	III	15	---
STH 57	402A	3	135+49.09	16.0	RT	653.78	CATCH BASINS 2x3-FT	H	10.43	---	P402B	3	402A	402C	645.35	645.32	0.50	6	8	III	15	---
STH 57	402C	3	135+49.09	10.0	RT	653.68	CATCH BASINS 2x3-FT	H	10.36	---	P402D	3	402C	E403	645.32	645.30	0.50	4	8	III	15	---
STH 57	E403	---	135+49.09	1.4	RT	653.63	---	J-SPECIAL	---	ADJUST TO FINISHED GRADE & INSTALL COVER	PE412	---	E403	437	---	642.80	---	---	---	---	42	EXIST PIPE INTERPOL ELEV
STH 57	405A	5	134+35.83	75.2	LT	652.18	INLETS MEDIAN 1 GRATE	MS	6.37	---	P405B	5	405A	405	645.81	645.25	0.50	111	115	III	18	---
STH 57	405C	5	135+99.61	85.4	LT	649.72	INLETS MEDIAN 1 GRATE	MS	4.20	---	P405D	5	405C	405	645.52	645.25	0.50	54	58	IV	18	---
STH 57	405	5	135+50.00	57.0	LT	653.24	CATCH BASINS 4-FT DIAMETER	H	10.49	---	P406	5	405	407	644.75	644.56	0.50	39	42	III	24	---
STH 57	407	5	135+49.09	12.0	LT	653.78	CATCH BASINS 2x3-FT	H	11.22	---	P408	4	407	409	644.56	644.53	0.50	6	8	III	24	---
STH 57	409	3	135+49.09	6.0	LT	653.44	CATCH BASINS 2x3-FT	H	10.91	---	P410	3	409	E403	644.53	644.52	0.50	2	6	III	24	---
STH 57	E427	---	137+51.25	76.2	LT	NOTE 2	---	H	---	ADJUST TO FINISHED GRADE & INSTALL COVER	PE428	---	E427	E429	---	---	---	---	---	---	12	---
STH 57	E429	---	137+07.16	76.5	LT	NOTE 2	---	H	---	ADJUST TO FINISHED GRADE & INSTALL COVER	P430	5	E429	430A	649.39	649.21	0.40	45	47	III	15	TO ENDWALL
STH 57	437	3	136+71.58	0.6	RT	654.40	MANHOLES 6-FT DIAMETER	J-SPECIAL	11.60	---	PE438	---	437	E439	642.80	---	---	---	---	---	42	EXIST PIPE INTERPOL ELEV
STH 57	E439	---	137+74.35	0.7	RT	655.25	---	---	---	---	PE440	---	E439	---	---	---	---	---	---	---	42	---
STH 57	453	3	126+25.13	9.9	RT	653.50	CATCH BASINS 4-FT DIAMETER	H	7.51	---	P454	3	453	455	647.99	647.93	0.50	12	17	IV	15	---
STH 57	455	3	126+24.95	22.3	RT	651.78	CATCH BASINS 5-FT DIAMETER	H	6.60	---	P456	3	455	457	647.18	646.96	0.30	72	76	IV	24	---
STH 57	457	3	125+50.00	24.8	RT	651.22	CATCH BASINS 4-FT DIAMETER	H	6.26	---	P458	3	457	475	646.96	646.59	0.30	123	127	IV	24	---
STH 57	459	5	124+25.00	12.0	LT	652.05	CATCH BASINS 4-FT DIAMETER	H-S	6.55	---	P460	5	459	461	647.50	647.48	0.50	5	9	IV	15	---

[1] DEPTH = RIM OR FLOW ELEV - LOWEST PIPE INVERT ELEVATION

[2] MATCH FLOW LINE OF REPLACED CONCRETE CURB AND GUTTER

[A] SLOPE CALCULATED BASED ON PIPE LENGTH. PIPE LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE

[B] PIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. NOT INTENDED FOR PAY QUANTITY.

[C] PLAN LENGTH SHOWN FOR PAY QUANTITY.

STORM SEWER STRUCTURES											STORM SEWER PIPES											
ROADWAY	STRUCTURE NO.	STRUCTURE STAGE	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH [1] (FT)	STRUCTURE COMMENTS	PIPE ID	PIPE STAGE	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE[A] %	PIPE LENGTH [B] (FT)	PLAN LENGTH [C] (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
STH 57	461	5	124+25.00	7.2	LT	651.97	CATCH BASINS 4-FT DIAMETER	H-S	6.49	---	P462	5	461	463	647.48	647.38	0.50	20	24	IV	15	---
STH 57	463	3	124+25.00	20.8	RT	652.77	CATCH BASINS 4-FT DIAMETER	H-S	7.39	---	P464	3	463	475	647.38	647.34	0.50	8	13	IV	15	---
STH 57	465	3	124+25.00	73.8	RT	651.78	CATCH BASINS 4-FT DIAMETER	H-S	6.26	---	P466	3	465	475	647.52	647.34	0.50	36	41	IV	15	---
STH 57	475	3	124+25.00	28.8	RT	650.72	CATCH BASINS 5-FT DIAMETER	H-S	6.13	---	P476	3	475	477	646.59	646.38	0.29	72	77	IV	24	---
STH 57	477	3	123+50.00	31.1	RT	650.88	CATCH BASINS 4-FT DIAMETER	H	6.50	---	P478	3	477	499	646.38	646.09	0.30	96	100	IV	24	---
STH 57	495	5	122+50.16	12.0	LT	652.65	CATCH BASINS 4-FT DIAMETER	H	7.72	---	P496	5	495	497	646.93	646.77	0.50	32	36	IV	15	---
STH 57	497	3	122+49.93	24.0	RT	652.39	CATCH BASINS 4-FT DIAMETER	H	7.62	---	P498	3	497	499	646.77	646.74	0.50	7	11	IV	15	---
STH 57	499	3	122+49.93	33.0	RT	651.94	MANHOLES 5-FT DIAMETER	J-SPECIAL	6.35	---	P500	3	499	501	645.59	645.29	0.30	100	105	IV	30	---
STH 57	501	3	121+45.25	29.8	RT	653.29	MANHOLES 5-FT DIAMETER	J-SPECIAL	8.01	---	P502	4A	501	777	645.28	645.04	0.30	79	85	IV	30	---
STH 100	531	5	487+32.58	59.9	LT	667.84	INLETS 4-FT DIAMETER	H-S	5.87	---	P531A	5	531	545	661.97	661.50	0.50	94	98	IV	15	---
STH 100	532A	4A	487+59.94	15.0	RT	668.05	CATCH BASINS 4-FT DIAMETER	H	7.70	---	P532B	5	532A	532C	662.35	662.32	0.50	6	10	IV	15	---
STH 100	532C	4A	487+59.86	9.0	RT	667.39	CATCH BASINS 4-FT DIAMETER	H-S	7.07	---	P532D	5	532C	532E	662.32	662.28	0.50	8	12	IV	15	---
STH 100	532E	4A	487+60.08	7.0	LT	667.14	CATCH BASINS 4-FT DIAMETER	H-S	6.86	---	P532F	5	532E	533	662.28	662.15	0.50	26	30	IV	15	---
STH 100	533	4A	487+32.74	15.0	LT	667.11	INLETS 4-FT DIAMETER	H	4.96	---	P532	5	533	531	662.15	661.97	0.50	37	41	IV	15	---
STH 100	545	5	486+34.40	60.0	LT	666.60	INLETS 4-FT DIAMETER	H	5.10	---	P546	5	545	547	661.50	661.23	0.50	54	58	IV	15	---
STH 100	547	3	485+93.80	15.0	LT	666.42	CATCH BASINS 4-FT DIAMETER	H	7.19	---	P548	5	547	549	661.23	661.20	0.50	6	10	IV	15	---
STH 100	549	3	485+93.80	9.0	LT	666.60	CATCH BASINS 4-FT DIAMETER	H	7.40	---	P550	5	549	551	661.20	661.10	0.50	20	25	IV	15	---
STH 100	551	3	485+93.80	15.0	RT	666.98	CATCH BASINS 5-FT DIAMETER	H	8.63	---	P552	3	551	567	660.35	659.88	0.35	133	137	IV	24	---
STH 100	563	3	484+54.51	15.0	LT	665.72	CATCH BASINS 4-FT DIAMETER	H	7.10	---	P564	5	563	565	660.62	660.59	0.50	6	10	IV	15	---
STH 100	565	3	484+54.51	9.0	LT	665.91	CATCH BASINS 4-FT DIAMETER	H	7.32	---	P566	5	565	566A	660.59	660.55	0.50	8	12	IV	15	---

[1] DEPTH = RIM OR FLOW ELEV - LOWEST PIPE INVERT ELEVATION
[2] MATCH FLOW LINE OF REPLACED CONCRETE CURB AND GUTTER

[A] SLOPE CALCULATED BASED ON PIPE LENGTH. PIPE LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE

[B] PIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. NOT INTENDED FOR PAY QUANTITY.

[C] PLAN LENGTH SHOWN FOR PAY QUANTITY.

STORM SEWER STRUCTURES											STORM SEWER PIPES											
ROADWAY	STRUCTURE NO.	STRUCTURE STAGE	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH [1] (FT)	STRUCTURE COMMENTS	PIPE ID	PIPE STAGE	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE[A] %	PIPE LENGTH [B] (FT)	PLAN LENGTH [C] (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
STH 100	566A	4A	484+56.36	7.0	RT	666.15	CATCH BASINS 4-FT DIAMETER	H	7.60	---	P566B	5	566A	567	660.55	660.51	0.50	8	12	IV	15	---
STH 100	567	3	484+56.36	15.0	RT	666.29	CATCH BASINS 4-FT DIAMETER	H	8.41	---	P568	3	567	569	659.88	659.75	0.35	38	43	IV	24	---
---	---	---	---	---	---	---	---	---	--	---	PE582	---	---	569	---	660.20	---	---	---	---	24	EXIST PIPE INTERPOL ELEV
STH 100	569	3	484+40.28	60.0	RT	665.87	CATCH BASINS 6-FT DIAMETER	H-S	8.12	---	P570	3	PE612	PE614	659.75	659.72	0.35	8	14	IV	36	---
STH 100	583	3	484+27.10	54.1	RT	666.01	MANHOLES 5-FT DIAMETER	J-SPECIAL	6.29	---	PE584	---	P613	611	659.72	659.46	---	---	---	---	36	EXIST PIPE INTERPOL ELEV
STH 100	601	5	483+47.95	60.0	LT	664.95	CATCH BASINS 4-FT DIAMETER	H	6.46	---	P602	1	601	603	660.49	660.30	0.50	37	41	IV	15	---
STH 100	603	3	483+47.55	15.0	LT	665.47	CATCH BASINS 4-FT DIAMETER	H	7.17	---	P604	1	603	605	660.30	660.18	0.50	24	28	IV	15	---
STH 100	605A	4A	483+64.00	5.9	RT	665.66	CATCH BASINS 4-FT DIAMETER	H-S	7.42	---	P605B	1	605A	605	660.24	660.18	0.50	13	17	IV	15	---
STH 100	605	4A	483+47.54	8.7	RT	665.72	CATCH BASINS 4-FT DIAMETER	H	7.54	---	P606	1	605	611	660.18	659.99	0.50	39	43	IV	15	---
STH 100	609	3	483+47.67	60.0	RT	666.02	CATCH BASINS 2x3-FT	H	7.90	---	P610	1	609	611	660.12	660.11	0.50	2	5	IV	15	---
STH 100	611	3	483+47.69	53.9	RT	666.18	MANHOLES 5-FT DIAMETER	J-SPECIAL	6.86	---	PE612	---	611	613	659.32	659.23	---	---	---	---	36	EXIST PIPE INTERPOL ELEV
---	---	---	---	---	---	---	---	---	--	---	P613	1	E612	E614	659.23	659.15	0.99	8	8	IV	36	---
---	---	---	---	---	---	---	---	---	--	---	PE614	---	613	E615	659.15	---	---	---	---	---	36	EXIST PIPE INTERPOL ELEV
STH 100	E615	---	482+63.07	54.1	RT	665.83	---	J-SPECIAL	---	ADJUST TO FINISHED GRADE & INSTALL COVER	PE616	---	E615	E621	---	---	---	---	---	---	36	---
STH 100	E621	---	481+06.25	15.2	RT	NOTE 2	---	H	---	ADJUST TO FINISHED GRADE & INSTALL COVER	PE622	---	E621	---	---	---	---	---	---	---	36	---
STH 100	641	3	489+04.39	77.2	RT	666.73	INLETS MEDIAN 1 GRATE	MS	5.49	---	P642	3	641	643	661.24	661.12	0.50	24	28	IV	15	---
STH 100	643	3	489+25.01	59.2	RT	667.38	CATCH BASINS 4-FT DIAMETER	H	8.26	---	P644	3	643	645	661.12	660.53	0.50	117	121	III	15	---
STH 100	645	3	490+49.99	58.7	RT	666.68	CATCH BASINS 4-FT DIAMETER	H	8.15	---	P646	3	645	648	660.53	660.35	0.50	36	41	III	15	---
STH 100	647	5	490+50.27	10.2	LT	666.61	CATCH BASINS 4-FT DIAMETER	H	8.14	---	P647A	5	647	648	660.47	660.35	0.50	24	28	III	15	---
STH 100	648	3	490+49.97	13.7	RT	667.86	CATCH BASINS 5-FT DIAMETER	H	10.24	---	P648A	3	648	648D	659.62	659.21	0.52	78	83	III	24	---

[1] DEPTH = RIM OR FLOW ELEV - LOWEST PIPE INVERT ELEVATION
[2] MATCH FLOW LINE OF REPLACED CONCRETE CURB AND GUTTER

[A] SLOPE CALCULATED BASED ON PIPE LENGTH. PIPE LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE

[B] PIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. NOT INTENDED FOR PAY QUANTITY.

[C] PLAN LENGTH SHOWN FOR PAY QUANTITY.

STORM SEWER STRUCTURES											STORM SEWER PIPES											
ROADWAY	STRUCTURE NO.	STRUCTURE STAGE	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH [1] (FT)	STRUCTURE COMMENTS	PIPE ID	PIPE STAGE	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE[A] %	PIPE LENGTH [B] (FT)	PLAN LENGTH [C] (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
STH 100	648B	5	491+20.55	59.9	LT	666.86	INLETS 4-FT DIAMETER	H-S	5.94	---	P648C	5	648B	648D	660.92	660.57	0.50	71	75	III	15	---
STH 100	648D	3	491+34.07	13.7	RT	667.00	MANHOLES 5-FT DIAMETER	H	7.79	---	P648E	3	648D	649B	659.21	658.79	0.50	85	90	III	24	---
STH 100	649	5	492+25.00	19.8	LT	664.47	INLETS 4-FT DIAMETER	H	4.76	---	P649A	5	649	649B	659.71	659.54	0.50	34	38	III	15	---
STH 100	649B	3	492+24.60	13.8	RT	665.72	MANHOLES 5-FT DIAMETER	H	6.93	---	P649C	3	649B	673B	658.79	655.84	1.73	170	175	IV	24	---
STH 100	E651	---	491+64.18	102.7	RT	665.61	---	H	---	ADJUST TO FINISHED GRADE & INSTALL COVER	PE652	---	E651	E655	---	---	---	---	---	---	15	---
STH 100	E653	---	491+99.35	99.3	RT	665.75	---	H	---	ADJUST TO FINISHED GRADE & INSTALL COVER	PE654	---	E653	E655	---	---	---	---	---	---	15	---
STH 100	E655	---	491+89.50	103.9	RT	666.08	---	J-SPECIAL	---	ADJUST TO FINISHED GRADE & INSTALL COVER	PE656	---	E655	---	---	---	---	---	---	---	15	---
STH 100	667	3	492+24.97	58.8	RT	664.53	INLETS 4-FT DIAMETER	H	9.40	---	P668	3	667	669	655.13	654.73	0.50	80	84	III	15	---
STH 100	669	3	493+10.11	64.1	RT	663.12	CATCH BASINS 4-FT DIAMETER	H	10.39	---	P670	3	669	671	654.73	654.30	0.50	86	90	III	15	---
STH 100	671	3	493+99.98	71.0	RT	661.02	CATCH BASINS 4-FT DIAMETER	H	8.72	---	P672	3	671	673B	654.30	654.06	0.50	49	53	III	15	---
STH 100	673	5	493+99.78	2.6	LT	661.27	CATCH BASINS 4-FT DIAMETER	H	9.56	---	P673A	5	673	673B	653.71	653.65	0.50	12	17	III	15	---
STH 100	673B	4A	494+00.02	16.0	RT	661.68	MANHOLES 5-FT DIAMETER	J-SPECIAL	8.78	---	P673C	4A	673B	689	652.90	651.95	1.00	95	100	III	24	---
STH 100	675	5	493+82.12	93.5	LT	661.22	INLETS MEDIAN 1 GRATE	MS	7.05	---	P676	5	675	677	654.17	653.84	0.50	66	69	III	15	---
STH 100	677	5	494+00.09	28.8	LT	660.91	CATCH BASINS 4-FT DIAMETER	H	9.07	---	P674	5	677	673	653.84	653.71	0.50	26	30	III	15	---
STH 100	689	4A	495+00.04	16.0	RT	659.15	MANHOLES 5-FT DIAMETER	J-SPECIAL	7.20	---	P700	4A	689	750	651.95	650.74	1.00	121	126	III	24	---
STH 100	691	5	494+99.76	15.1	LT	658.49	CATCH BASINS 4-FT DIAMETER	H	7.06	---	P690	5	691	689	653.43	653.31	0.50	25	29	III	15	---
STH 100	693	5	495+00.01	30.0	LT	658.41	CATCH BASINS 4-FT DIAMETER	H	6.91	---	P692	5	693	691	653.50	653.43	0.50	15	19	III	15	---
STH 57	715	3	116+56.78	80.3	LT	655.58	INLETS MEDIAN 1 GRATE	MS	4.09	---	P716	3	715	237	651.49	651.12	1.00	37	41	III	15	---
STH 100	721	3	496+27.60	154.6	RT	653.83	INLETS 4-FT DIAMETER	B	4.14	---	P722	3	721	739	649.69	649.20	0.64	76	81	III	18	---
STH 100	735	3	495+00.00	71.0	RT	658.49	CATCH BASINS 4-FT DIAMETER	H	9.83	---	P736	3	735	737	650.66	650.05	1.00	61	65	III	15	---

[1] DEPTH = RIM OR FLOW ELEV - LOWEST PIPE INVERT ELEVATION
[2] MATCH FLOW LINE OF REPLACED CONCRETE CURB AND GUTTER

[A] SLOPE CALCULATED BASED ON PIPE LENGTH. PIPE LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE

[B] PIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. NOT INTENDED FOR PAY QUANTITY.

[C] PLAN LENGTH SHOWN FOR PAY QUANTITY.

STORM SEWER STRUCTURES											STORM SEWER PIPES											
ROADWAY	STRUCTURE NO.	STRUCTURE STAGE	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH [1] (FT)	STRUCTURE COMMENTS	PIPE ID	PIPE STAGE	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE[A] %	PIPE LENGTH [B] (FT)	PLAN LENGTH [C] (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
STH 100	737	3	495+64.48	72.0	RT	657.04	CATCH BASINS 4-FT DIAMETER	H	9.24	---	P738	3	737	739	649.80	649.27	0.95	56	61	III	18	---
STH 100	739	3	496+24.80	76.6	RT	655.83	CATCH BASINS 6-FT DIAMETER	H	9.08	---	P740	3	739	750	648.75	648.60	0.30	52	57	III	24	---
STH 100	741	5	496+25.00	22.0	LT	655.90	CATCH BASINS 4-FT DIAMETER	H	7.72	---	P749	5	741	750	650.18	650.02	0.50	32	37	III	15	---
STH 100	743	5	495+00.00	75.0	LT	658.83	CATCH BASINS 4-FT DIAMETER	H	9.93	---	P744	5	743	745	650.90	650.43	0.48	96	100	IV	15	---
STH 100	745	5	496+00.00	75.0	LT	656.01	INLETS 4-FT DIAMETER	H	5.58	---	P746	5	745	747	650.43	650.22	0.48	44	48	IV	15	---
STH 100	747	5	496+25.02	30.0	LT	655.86	CATCH BASINS 4-FT DIAMETER	H	7.64	---	P748	5	747	741	650.22	650.18	0.50	8	12	III	15	---
STH 100	750	4A	496+25.65	14.0	RT	656.51	CATCH BASINS 5-FT DIAMETER	H	10.17	---	P751	4A	750	752	648.34	647.79	1.00	55	60	III	24	---
STH 100	752	4A	496+85.86	14.0	RT	655.63	CATCH BASINS 6-FT DIAMETER	H	13.19	---	P753	4A	752	775	644.44	644.29	0.30	49	56	III	36	---
STH 100	754	4A	497+47.30	6.0	RT	654.92	CATCH BASINS 4-FT DIAMETER	H	7.93	---	P755	4A	754	775	648.99	648.94	0.50	9	15	III	15	---
STH 57	761	5	126+25.00	57.0	LT	651.49	CATCH BASINS 4-FT DIAMETER	H	7.26	---	P762	5	761	763	646.23	645.89	0.50	68	72	IV	24	---
STH 57	763	5	125+49.98	57.0	LT	651.03	CATCH BASINS 4-FT DIAMETER	H	7.14	---	P764	5	763	765	645.89	645.46	0.37	116	121	IV	24	---
STH 57	765	5	124+25.00	67.1	LT	650.49	CATCH BASINS 5-FT DIAMETER	H-S	7.03	---	P766	5	765	767	645.46	644.96	0.30	167	172	IV	24	---
STH 57	767	5	122+50.17	76.8	LT	652.46	CATCH BASINS 4-FT DIAMETER	H	9.50	---	P767A	5	767	768	644.96	644.86	0.30	33	37	III	24	---
STH 57	767B	5	122+17.56	58.9	LT	653.34	INLETS 4-FT DIAMETER	H	5.25	---	P767C	5	767B	767D	648.09	648.07	0.50	5	9	IV	15	---
STH 57	767D	5	122+17.81	63.7	LT	653.12	INLETS 4-FT DIAMETER	H	5.05	---	P767E	5	767D	768	648.07	647.90	0.50	35	39	IV	15	---
STH 57	768	5	122+25.72	103.5	LT	655.66	MANHOLES 4-FT DIAMETER	J-SPECIAL	10.80	---	P768A	5	768	771	644.86	644.65	0.29	72	76	III	24	---
STH 100	769	5	496+74.89	94.3	LT	654.10	INLETS MEDIAN 1 GRATE	MS	5.00	---	P770	5	769	771	649.10	648.90	1.00	20	24	III	15	---
STH 100	771	5	496+85.29	75.1	LT	654.57	INLETS 4-FT DIAMETER	H	9.92	---	P772	5	771	773	644.65	644.54	0.28	37	41	III	24	---
STH 100	773	5	496+85.52	30.0	LT	655.10	CATCH BASINS 4-FT DIAMETER	H	12.56	---	P774	5	773	774A	644.54	644.52	0.30	8	12	IV	24	---
STH 100	774A	4A	496+85.42	22.0	LT	655.01	CATCH BASINS 4-FT DIAMETER	H	12.49	---	P774B	4A	774A	752	644.52	644.43	0.28	32	37	III	24	---

[1] DEPTH = RIM OR FLOW ELEV - LOWEST PIPE INVERT ELEVATION

[2] MATCH FLOW LINE OF REPLACED CONCRETE CURB AND GUTTER

[A] SLOPE CALCULATED BASED ON PIPE LENGTH. PIPE LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE

[B] PIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. NOT INTENDED FOR PAY QUANTITY.

[C] PLAN LENGTH SHOWN FOR PAY QUANTITY.

STORM SEWER STRUCTURES											STORM SEWER PIPES											
ROADWAY	STRUCTURE NO.	STRUCTURE STAGE	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH [1] (FT)	STRUCTURE COMMENTS	PIPE ID	PIPE STAGE	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE[A] %	PIPE LENGTH [B] (FT)	PLAN LENGTH [C] (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
STH 100	775	4A	497+41.97	14.0	RT	655.10	MANHOLES 8-FT DIAMETER	H	13.26	2' SUMP	P776	4A	775	777	643.84	643.54	0.30	99	106	IV	48	---
STH 100	777	3	498+48.40	17.0	RT	654.14	MANHOLES 7-FT DIAMETER	J-SPECIAL	10.64	---	P778	3	777	817	643.50	642.99	0.30	168	177	III	54	---
STH 100	793	5	499+42.81	158.9	LT	653.10	INLETS MEDIAN 1 GRATE	MS	6.35	---	P794	5	793	803	646.75	645.69	1.50	71	74	III	15	---
STH 100	801	5	499+66.26	76.5	LT	652.07	INLETS 4-FT DIAMETER	H	6.28	---	P802	5	801	802A	645.79	645.77	0.50	5	9	III	15	---
STH 100	802A	5	499+67.26	81.4	LT	651.90	CATCH BASINS 4-FT DIAMETER	H-S	8.13	---	P802B	5	802A	803	645.77	645.69	0.50	16	20	III	15	---
STH 100	803	5	499+82.67	98.4	LT	651.59	CATCH BASINS 4-FT DIAMETER	H-S	7.90	---	P804	5	803	805	645.69	645.50	0.50	39	43	III	15	---
STH 100	805	5	500+25.00	92.4	LT	651.68	CATCH BASINS 4-FT DIAMETER	H	8.43	---	P806	5	805	813	645.25	644.98	0.50	54	58	III	18	---
STH 100	811	5	499+75.00	30.0	LT	652.53	CATCH BASINS 4-FT DIAMETER	H	9.07	---	P812	5	811	813	645.46	645.23	0.50	46	50	III	15	---
STH 100	813	5	500+25.04	30.0	LT	652.37	INLETS 4-FT DIAMETER	H-S	7.39	---	P814	5	813	814A	644.98	644.94	0.50	8	12	III	18	---
STH 100	814A	5	500+25.03	22.0	LT	652.23	INLETS 4-FT DIAMETER	H-S	7.31	---	P814B	5	814A	815	644.92	644.82	0.50	20	24	III	18	---
STH 100	815	5	500+24.99	6.0	RT	651.75	INLETS 4-FT DIAMETER	H-S	6.93	---	P816	5	815	817	644.82	644.78	0.50	8	15	III	18	---
STH 100	817	3	500+25.01	14.0	RT	652.98	MANHOLES 10-FT SPECIAL	H-S	12.00	2' SUMP	P818	3	817	819	642.98	642.90	0.30	28	36	III	54	---
STH 100	819	3	500+25.00	59.0	RT	652.64	MANHOLES 7-FT DIAMETER	H-S	11.74	2' SUMP	P820	3	819	821	642.90	642.86	0.30	12	21	III	54	---
STH 100	821	3	500+24.96	76.4	RT	652.92	MANHOLES 10-FT SPECIAL	B	10.06	---	P822	3	821	843	642.86	642.51	0.30	117	125	III	54	---
STH 100	833	5	502+29.57	83.7	LT	652.93	INLETS 4-FT DIAMETER	H	5.55	---	P834	5	833	835	647.38	646.64	1.00	74	78	III	15	---
STH 100	835	5	501+51.95	85.4	LT	652.32	INLETS 4-FT DIAMETER	H	5.68	---	P836	5	835	837	646.64	645.83	1.00	81	85	III	15	---
STH 100	837	5	501+50.12	4.0	RT	652.35	INLETS 4-FT DIAMETER	H	6.52	---	P838	5	837	839	645.83	645.75	1.00	8	12	III	15	---
STH 100	839	3	501+49.87	12.1	RT	653.49	INLETS 4-FT DIAMETER	H	7.74	---	P840	3	839	841	645.75	645.38	0.95	39	43	III	15	---
STH 100	841	3	501+50.00	59.0	RT	653.07	INLETS 4-FT DIAMETER	H	7.69	---	P842	3	841	843	645.38	645.24	1.00	14	19	III	15	---
STH 100	843	3	501+50.00	76.1	RT	653.04	MANHOLES 7-FT DIAMETER	J-SPECIAL	10.53	---	P844	3	843	857	642.51	641.63	0.30	294	301	III	54	---

[1] DEPTH = RIM OR FLOW ELEV - LOWEST PIPE INVERT ELEVATION

[2] MATCH FLOW LINE OF REPLACED CONCRETE CURB AND GUTTER

[A] SLOPE CALCULATED BASED ON PIPE LENGTH. PIPE LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE

[B] PIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. NOT INTENDED FOR PAY QUANTITY.

[C] PLAN LENGTH SHOWN FOR PAY QUANTITY.

STORM SEWER STRUCTURES											STORM SEWER PIPES											
ROADWAY	STRUCTURE NO.	STRUCTURE STAGE	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH [1] (FT)	STRUCTURE COMMENTS	PIPE ID	PIPE STAGE	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE[A] %	PIPE LENGTH [B] (FT)	PLAN LENGTH [C] (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
STH 100	855	3	504+50.97	59.0	RT	654.96	CATCH BASINS 4-FT DIAMETER	H	8.80	---	P856	3	855	857	648.16	647.89	2.00	14	19	III	15	---
STH 100	857	3	504+50.95	76.4	RT	654.70	MANHOLES 7-FT DIAMETER	J-SPECIAL	13.07	---	P858	3	857	890C	641.63	641.31	0.30	107	115	III	54	---
STH 100	881	3	504+51.48	66.5	LT	654.85	CATCH BASINS 4-FT DIAMETER	H	5.68	---	P882	3	881	883	651.17	651.04	0.30	43	47	IV	15	---
STH 100	883	5	504+51.82	16.0	LT	655.09	CATCH BASINS 4-FT DIAMETER	H	6.05	---	P884	5	883	E885	651.04	651.01	0.30	9	13	IV	15	---
STH 100	E885	---	504+51.84	7.0	LT	NOTE 2	---	H	---	ADJUST TO FINISHED GRADE & INSTALL COVER	PE886	---	E885	E887	---	---	---	---	---	---	15	---
---	---	---	---	---	---	---	---	---	--	---	PE872	---	---	E889	---	---	---	---	---	---	48	---
STH 100	E887	---	504+51.37	14.2	RT	NOTE 2	---	H	---	ADJUST TO FINISHED GRADE & INSTALL COVER	PE888	---	E887	E889	---	---	---	---	---	---	15	---
STH 100	E889	---	504+73.87	21.9	RT	655.41	---	---	---	---	PE890	---	E889	890A	---	641.27	---	---	---	---	48	EXIST PIPE INTERPOL ELEV
STH 100	890A	3	505+66.14	62.2	RT	656.33	MANHOLES 7-FT DIAMETER	J-SPECIAL	15.07	---	P890B	3	890A	890C	641.26	641.23	0.50	6	14	III	48	---
STH 100	890C	3	505+66.14	76.5	RT	655.44	MANHOLES 9-FT SPECIAL	J-SPECIAL	14.21	---	P890D	3	890C	891	641.23	641.16	0.30	25	33	III	54	---
STH 100	891	3	505+99.08	76.5	RT	655.60	MANHOLES 7-FT DIAMETER	J-SPECIAL	14.44	---	P892	3	891	915	641.16	640.85	0.30	104	111	III	54	---
STH 100	915	3	507+00.83	121.9	RT	654.64	MANHOLES 7-FT DIAMETER	J-SPECIAL	13.79	---	P916	3	915	917	640.85	640.36	0.46	105	108	III	54	TO ENDWALL
---	---	---	---	---	---	---	---	---	--	---	P922	5	921	923	646.57	645.84	0.97	72	75	III	36	FROM ENDWALL
STH 100	923	5	502+08.67	88.1	LT	653.33	MANHOLES 6-FT DIAMETER	J-SPECIAL	7.49	CENTER OF COVER AT STA 502+08.62, 86.1' LT	P924	5	923	925	645.84	645.48	0.50	73	79	III	36	
STH 100	925	5	502+86.91	95.2	LT	652.24	MANHOLES 6-FT DIAMETER	J-SPECIAL	6.76	---	PE926	---	925	E927	645.48	---	---	---	---	---	36	EXIST PIPE INTERPOL ELEV
STH 100	E927	---	503+59.35	93.3	LT	653.81	---	---	---	---	---	---	---	---	--	---	---	---	---	---	---	---

[1] DEPTH = RIM OR FLOW ELEV - LOWEST PIPE INVERT ELEVATION
[2] MATCH FLOW LINE OF REPLACED CONCRETE CURB AND GUTTER

[A] SLOPE CALCULATED BASED ON PIPE LENGTH. PIPE LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE

[B] PIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. NOT INTENDED FOR PAY QUANTITY.

[C] PLAN LENGTH SHOWN FOR PAY QUANTITY.

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STORM SEWER STRUCTURE SUMMARY																		
611.1004 CATCH BASINS 4-FT DIAMETER EACH	611.1005 CATCH BASINS 5-FT DIAMETER EACH	611.1006 CATCH BASINS 6-FT DIAMETER EACH	611.1230 CATCH BASINS 2x3-FT EACH	611.2004 MANHOLES 4-FT DIAMETER EACH	611.2005 MANHOLES 5-FT DIAMETER EACH	611.2006 MANHOLES 6-FT DIAMETER EACH	611.2007 MANHOLES 7-FT DIAMETER EACH	611.2008 MANHOLES 8-FT DIAMETER EACH	SPV.0060.01 MANHOLES 9-FT SPECIAL EACH	SPV.0060.02 MANHOLES 10-FT SPECIAL EACH	611.3004 INLETS 4-FT DIAMETER EACH	611.3901 INLETS MEDIAN 1 GRATE EACH	611.3902 INLETS MEDIAN 2 GRATE EACH	611.0535 MANHOLE COVERS TYPE J SPECIAL EACH	611.0606 INLET COVERS TYPE B EACH	611.0612 INLET COVERS TYPE C EACH	611.0642 INLET COVERS TYPE MS EACH	611.0624 INLET COVERS TYPE H EACH	611.0639 INLET COVERS TYPE H-S EACH
96	12	7	5	1	12	11	7	1	1	2	28	11	1	28	4	1	13	130	31

STORM SEWER PIPE SUMMARY														
608.0312 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH LF	608.0315 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 15-INCH LF	608.0318 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 18-INCH LF	608.0324 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 24-INCH LF	608.0336 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 36-INCH LF	608.0342 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 42-INCH LF	608.0348 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 48-INCH LF	608.0354 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 54-INCH LF	608.0412 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 12-INCH LF	608.0415 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 15-INCH LF	608.0418 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 18-INCH LF	608.0424 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 24-INCH LF	608.0430 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 30-INCH LF	608.0436 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 36-INCH LF	608.0448 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 48-INCH LF
40	3117	600	1258	1468	74	14	1027	21	1395	58	1671	247	22	106

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

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TEMPORARY STORM SEWER

STAGE	ROADWAY	STATION	OFFSET	608.0412* STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 12-INCH LF	611.0624* INLET COVERS TYPE H EACH	611.0612* INLET COVERS TYPE C EACH	611.0651 INLET COVERS TYPE S EACH	611.3003 INLETS 3-FT DIAMETER EACH	611.8115* ADJUSTING INLET COVERS EACH	611.8120.S COVER PLATES TEMPORARY EACH
1	Ramp C	6+70	40' RT	--	--	--	--	--	1	--
		11+52	32' RT	123	1	--	--	1	--	--
		12+75	27' RT	--	--	--	--	--	1	--
	STH 100	494+29	--	--	--	--	--	--	1	--
		496+24	--	--	--	--	--	--	1	--
		497+18	53' LT	47	1	--	--	1	--	--
		501+55	3' LT	--	--	--	--	--	1	--
		502+02	17' LT	--	--	--	1	--	--	--
		504+52	17' LT	--	--	--	1	--	--	--
		504+52	5' LT	--	--	--	1	--	--	--
		504+52	17' RT	--	--	--	1	--	--	--
		521+53	7' RT	--	--	1	--	1	1	--
2	STH 100	500+00	--	--	--	--	--	--	1	--
3	STH 100	502+02	11' RT	--	--	--	1	--	--	--
	Undistributed	--	--	--	--	--	--	--	--	5
		PROJECT TOTALS		170	2	1	5	3	7	5

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

STORM SEWER STRUCTURES									STORM SEWER PIPES									
ROADWAY	STRUCTURE NO.	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH [1] (FT)	PIPE ID	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE[A] %	PIPE LENGTH [B] (FT)	PLAN LENGTH [C] (FT)	PIPE CALSS	PIPE SIZE (INCH)
RAMP C	T1	11+52	32	RT	653.12	INLET 3-FT DIAMETER	H	4.04	--	T1	E339	649.62	649.08	0.44	123.0		IV	12
STH 100	T2	497+18	53	LT	652.48	INLET 3-FT DIAMETER	H	2.23	--	T2	EXIST	650.45	650.25	0.44	47.0		IV	12
STH 100	T3	521+53	7	RT	656.76	INLET 3-FT DIAMETER	C	5.47	--	--	--	651.29	651.29	--	--		--	12
STH 100	--	--	--	--	--	--	--	--	--	--	T4	605	660.22	660.18	0.50	11.0		IV	15
STH 100	601	483+48	60	LT	664.60	INLET 4-FT DIAMETER	H	--	--	--	--	--	--	--	--	--	--	--
STH 100	609	483+48	60	RT	665.75	INLET 2x3-FT DIAMETER	H	--	--	--	--	--	--	--	--	--	--	--

ALL ITEMS ARE CATEGORY 0050 UNLESS OTHERWISE NOTED

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SANITARY SEWER PIPES

PIPE ID	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE[A] %	PIPE LENGTH [B] (FT)	PLAN LENGTH [C] (FT)	PIPE CALSS	PIPE SIZE (INCH)
--	826.010	826.061	646.15	645.75	0.40	101	101	II	21
--	826.061	FM	--	847.50	--	80	80	--	8
--	826.029	826.027	649.90	649.60	0.48	63	63	II	12

SANITARY BYPASS

SPV.0105.12 TEMPORARY SANITARY SEWER BYPASS

LOCATION	LS
Project No. 2270-04-70	1
PROJECT TOTALS	1

SANITARY SEWER ROADWAY

Location	204.0100 REMOVING CONCRETE PAVEMENT SY	204.0280 SEALING PIPES EACH	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	455.0605 TACK COAT GAL	460.6223 HMA PAVEMENT 3 MT 58-28 S TON	460.6224 HMA PAVEMENT 4 MT 58-28 S TON	690.0250 SAWING CONCRETE LF
DONGES BAY ROAD	56	1	37	2	17	6	210
SHERWOOD DRIVE	35	--	23	1	10	3	134
PROJECT TOTALS	91	1	60	3	27	9	344

SANITARY SEWER SPECIAL

Location	SPV.0060.10 SANITARY SEWER REINFORCED CONCRETE COLLAR 12-INCH EACH	SPV.0060.11 SANITARY SEWER REINFORCED CONCRETE COLLAR 21-INCH EACH	SPV.0090.10 SANITARY SEWER PIPE REINFORCED CONCRETE CLASS II 12-INCH LF	SPV.0090.11 SANITARY SEWER PIPE REINFORCED CONCRETE CLASS II 21-INCH LF	SPV.0090.12 SANITARY SEWER FORCE MAIN PIPE PVC 8-INCH LF	SPV.0105.10 REMOVING SANITARY SEWER INSIDE DROP LS	SPV.0105.11 SANITARY SEWER INSIDE DROP LS	SPV.0060.15 ADJUSTING CITY OF MEQUON SANITARY MANHOLE COVERS EACH
DONGES BAY ROAD	--	2	--	101	80	1	1	1
SHERWOOD DRIVE	2	--	63	--	--	--	--	--
PROJECT TOTALS	2	2	63	101	80	1	1	1

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EROSION CONTROL

STAGE	ROADWAY	STATION	TO	STATION	OFFSET	628.1504 SILT FENCE LF	SPV.0090.01 HEAVY DUTY SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.7504 TEMPORARY DITCH CHECKS LF	628.7555 CULVERT PIPE CHECKS EACH	628.7570 ROCK BAGS EACH	628.1104 EROSION BALES EACH
3	STH 57	104+00		105+25	LT	105	--	105	--	--	--	--
		104+00		120+22	RT	1680	--	1680	10	--	--	--
		105+25		120+22	LT	--	--	--	80	1	--	--
		123+89		125+00	RT	--	124	124	--	--	--	--
		125+50		137+00	RT	--	--	--	240	--	--	--
		135+54		137+11	RT	142	--	142	40	--	--	--
		221+80		232+25	--	2043		2043	--	--	--	14
	STH 100	480+00		483+00	RT	100	--	100	--	--	--	--
		483+35		484+52	RT	133	--	133	--	--	--	--
		484+52		485+12	RT	--	60	60	--	1	--	--
		485+12		486+75	RT	150	--	150	--	--	--	--
		486+75		491+50	RT	94	--	94	25	--	--	--
		492+00		498+00	RT	68	--	68	50	--	--	--
		499+84		503+50	LT	--	330	330	70	--	--	--
		500+97		507+00	RT	--	608	608	--	--	--	--
		502+73		503+81	LT	108	--	108	--	--	--	--
				STAGE 3 SUBTOTAL:		4623	1122	5745	515	2	--	14
5	STH 57	124+30		126+64	LT	--	211	211	--	--	--	--
		128+39		130+20	LT	--	186	186	--	--	--	--
		130+20		131+23	LT	105	--	105	--	--	--	--
		136+00		137+11	LT	--	115	115	--	--	--	--
	STH 100	481+97		482+86	LT	75	--	75	--	--	--	--
		483+00		484+23	LT	117	--	117	--	--	--	--
		484+41		484+97	LT	56	--	56	--	--	--	--
		486+03		486+75	LT	68	--	68	--	--	--	--
		486+75		488+13	LT	111	--	111	--	--	--	--
		492+00		496+06	LT	170	--	170	40	--	--	--
				STAGE 5 SUBTOTAL:		702	512	1214	40	--	--	--
				UNDISTRIBUTED		185	56	241	15	2	20	2
				PROJECT TOTALS		5,510	1,690	7,200	570	4	20	16

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

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INLET PROTECTION

STAGE	ROADWAY	STATION	TO	STATION	OFFSET	628.7005 INLET PROTECTION TYPE A EACH	628.7010 INLET PROTECTION TYPE B EACH	628.7015 INLET PROTECTION TYPE C EACH	628.7020 INLET PROTECTION TYPE D EACH
1	STH 100	480+00		525+00	--	--	2	48	2
	RAMP C	6+25		13+50	--	1	3	4	--
				STAGE 1 SUBTOTAL		1	5	52	2
2	STH 100	497+00		500+00	--	--	--	3	2
				STAGE 2 SUBTOTAL		--	--	3	2
3	STH 57	104+00		120+21		10	1	18	--
		121+51		137+11		22	2	29	4
		137+47	-	143+08		--	1	4	--
		143+08	-	148+36		--	1	5	--
		148+36	-	153+66		--	1	13	--
		153+66	-	158+96		--	3	7	--
		158+96	-	164+26		--	2	7	--
		164+26	-	169+35		--	4	7	--
		169+35	-	174+88		--	1	3	--
	STH 100	481+98		482+69		1	--	5	--
		483+32		486+75		7	1	7	--
		486+75		491+75		8	--	9	--
		491+75		498+50		12	5	15	2
		498+50		507+06		11	--	24	2
				STAGE 3 SUBTOTAL		71	22	153	8
5	STH 57	104+00		120+21		60	--	48	4
		121+52		137+11		31	1	42	10
	STH 100	481+98		482+69		--	1	3	--
		483+32		486+75		5	--	13	--
		486+75		491+75		5	--	12	--
		491+75		498+50		10	3	20	--
		498+50		506+60		11	--	27	3
				STAGE 5 SUBTOTAL		122	5	165	17
6	STH 100	481+98		482+69	--	--	1	4	--
		483+32		486+75	--	3	--	13	1
		486+75		491+75	--	2	--	10	1
		491+75		498+50	--	5	--	27	--
		498+50		507+06	--	3	--	21	5
				STAGE 6 SUBTOTAL		13	1	75	7
				PROJECT TOTALS		207	33	448	36

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

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MOBILIZATION

LOCATION	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH
Project No. 2270-04-70	6	11
PROJECT TOTALS	6	11

TEMPORARY SEED

LOCATION	630.0200 SEEDING TEMPORARY LB	630.0500* SEED WATER MGAL
Project No. 2270-04-70	150	125
PROJECT TOTALS	150	125

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

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SOIL STABILIZER

LOCATION	628.6505 SOIL STABILIZER TYPE A ACRE
Project No. 2270-04-70	2
PROJECT TOTALS	2

SILT SCREEN

ROADWAY	STATION	TO	STATION	OFFSET	628.1550 SILT SCREEN LF
STH 100	507+97		508+25	240' RT	30
			PROJECT TOTALS		30

RIPRAP

ROADWAY	STATION	TO	STATION	OFFSET	606.0200 RIPRAP MEDIUM CY	645.0130 GEOTEXTILE TYPE R SY
STH 100	507+80		508+04	220' RT	15	30
			PROJECT TOTALS		15	30

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

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					RESTORATION									
					628.2006	628.2008	625.0100	625.0500	629.0205	630.0140	630.0500*	631.0300	631.1000	627.0200
					EROSION MAT URBAN CLASS I TYPE A	EROSION MAT URBAN CLASS I TYPE B	TOPSOIL	SALVAGED TOPSOIL	FERTILIZER TYPE A	SEEDING MIXTURE NO. 40	SEED WATER	SOD WATER	SOD LAWN	MULCHING
ROADWAY	STATION	TO STATION	OFFSET		SY	SY	SY	SY	CWT	LB	MGAL	MGAL	SY	SY
STH 57	104+00	105+11	LT		333	--	--	333	0.2	9	7	--	--	--
	104+00	105+00	--		--	--	--	98	0.1	--	--	1	98	--
	104+00	120+00	RT		1862	--	--	1862	1.2	50	42	--	--	--
	105+11	117+51	--		--	--	--	3045	1.9	--	--	34	3045	--
	105+52	119+76	LT		2377	--	--	2377	1.5	64	53	--	--	--
	107+00	108+58	LT		--	572	--	572	0.4	15	13	--	--	--
	112+55	114+36	RT		--	175	--	175	0.1	5	4	--	--	--
	113+97	116+56	LT		--	298	--	298	0.2	8	7	--	--	--
	114+36	120+00	RT		--	--	2519	--	1.6	68	57	--	--	2519
	116+56	119+76	LT		--	--	2010	--	1.3	54	45	--	--	2010
	121+48	125+00	RT		--	--	1480	--	0.9	40	33	--	--	1480
	121+48	137+11	RT		3059	--	--	3059	1.9	83	69	--	--	--
	121+71	137+11	LT		3772	--	--	3772	2.4	102	85	--	--	--
	121+84	129+45	LT		--	--	3966	--	2.5	107	89	--	--	3966
	126+00	129+00	RT		--	1000	--	1000	0.6	27	22	--	--	--
	126+50	135+26	RT		--	--	--	2247	1.4	--	--	25	2247	--
	132+00	134+17	LT		--	223	--	223	0.1	6	5	--	--	--
	136+00	137+11	LT		--	166	--	166	0.1	4	4	--	--	--
	138+52	138+73	--		--	--	21	--	0.0	--	--	1	21	--
	221+80	240+10	--		--	292	292	--	0.2	8	7	--	--	--
	230+00	232+25	--		--	--	209	--	0.1	--	--	5	209	--
		TABLE TOTALS			11403	2726	10497	19227	19	651	541	66	5620	9975

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

Continued

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

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					RESTORATION									
				628.2006 EROSION MAT URBAN CLASS 1 TYPE A	628.2008 EROSION MAT URBAN CLASS I TYPE B	625.0100	625.0500	629.0205	630.0140 SEEDING MIXTURE	630.0500*	631.0300	631.1000	627.0200
ROADWAY	STATION	TO STATION	OFFSET	SY	SY	TOPSOIL SY	SALVAGED TOPSOIL SY	FERTILIZER TYPE A CWT	NO. 40 LB	SEED WATER MGAL	SOD WATER MGAL	SOD LAWN SY	MULCHING SY
STH 100	476+32	479+00	--	--	--	803	--	0.5	--	--	5	434	--
	480+00	483+00	RT	126	--	126	--	0.1	3	3	--	--	--
	480+80	484+47	--	--	--	798	--	0.3	--	10	--	--	--
	481+97	482+86	LT	105	42	147	--	0.1	4	3	--	--	--
	482+86	486+75	LT	442	--	442	--	0.3	12	10	--	--	--
	483+00	483+35	RT	--	11	11	--	0.0	0	0	--	--	--
	483+00	486+75	RT	317	--	317	--	0.2	9	7	--	--	--
	485+00	485+75	RT	--	21	21	--	0.0	1	0	--	--	--
	486+75	491+75	LT	900	--	900	--	0.6	24	20	--	--	--
	486+75	491+75	RT	391	--	391	--	0.2	11	9	--	--	--
	487+75	489+27	RT	--	165	165	--	0.1	4	4	--	--	--
	488+73	495+55	--	--	--	1703	--	0.9	--	33	--	--	--
	491+75	492+08	LT	--	23	23	--	0.0	1	1	--	--	--
	491+75	498+50	LT	819	--	819	--	0.5	22	18	--	--	--
	491+75	498+50	RT	1461	--	1461	--	0.9	39	33	--	--	--
	495+18	496+92	LT	--	232	232	--	0.1	6	5	--	--	--
	498+50	507+00	RT	1031	--	1031	--	0.6	28	23	--	--	--
	499+21	499+84	LT	43	--	43	--	0.0	1	1	--	--	--
	499+84	506+60	LT	544	--	544	291	0.5	23	19	--	--	291
	500+77	503+19	LT	--	433	433	--	0.3	12	10	--	--	--
	504+38	506+58	--	--	--	241	--	0.2	--	5	--	--	--
	508+80	514+00	--	--	--	--	1112	0.6	--	22	--	--	--
	517+77	523+29	--	--	--	1370	--	0.9	--	--	15	1370	--
DEERWOOD	137+49	137+89	--	--	--	122	--	0.1	--	--	3	122	--
SHROEDER	150+11	151+90	--	--	--	245	--	0.2	--	--	6	245	--
		TABLE TOTALS		6,179	927	12,388	1,403	8	200	237	28	2,171	291
		UNDISTRIBUTED		760	240	931	1,043	1	41	34	5	390	489
		PROJECT TOTALS		18,342	3,893	23,816	21,673	28	892	812	99	8,181	10,755

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

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SYM	COMMON NAME	SCIENTIFIC NAME	AVG. MATURE HEIGHT	SIZE (CAL. OR HT.)	ROOT ZONE MODE	MINIMUM SIZE BALL/POT DIAM.	MINIMUM SIZE BALL/POT DEPTH	MINIMUM SIZE ROOT SPREAD	MINIMUM SIZE PLANT HOLE DIAM.	MINIMUM SIZE PLANT HOLE DEPTH	BRACE OR GUY	FERT. UNITS REQ'D	RODENT PROTECT REQ'D	MULCH RING DIAM.
	LARGE DECIDUOUS TREES													
RBC	RED BARRON CRABAPPLE	MALUS 'RED BARRON'	20	2"	B&B	24"	14"	-	48"	14"	GUY	4	YES	60"
ABS	AUTUMN BRILLIANCE SERVICEBERRY	AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE'	20	7-FT	B&B	20"	12"	-	44"	12"	GUY	4	YES	56"
CCH	CRIMSON CLOUD HAWTHORN	CRATAEGUS LAEVIGATA 'CRIMSON CLOUD'	20	2"	B&B	24"	14"	-	48"	14"	GUY	4	YES	60"

TREES

ROADWAY	STATION	TO	STATION	OFFSET	632.0101.09 MALUS "RED BARRON" B&B, 2-INCH CAL. EACH	632.0101.10 AMELANCHIER X GRANDIFLORA "AUTUMN BRILLIANCE" B&B, 7-FT HT EACH	632.0101.11 CRATAGEUS LAEVIGATA "CRIMSON CLOUD" B&B, 2-INCH CAL. EACH	COMMENT
STH 100	518+00		524+00	--	RED BARRON CRABAPPLE 2-INCH CAL B&B 3	AUTUMN BRILLIANCE SERVICEBERRY 7-FT HT B&B 3	CRIMSON CLOUD HAWTHORN 2-INCH CAL B&B 3	COMMON NAME SIZE WHEN PLANTED ROOT ZONE MODE
			PROJECT TOTALS		3	3	3	

SYM	COMMON NAME	SCIENTIFIC NAME	AVG. MATURE HEIGHT	SIZE (CAL. OR HT.) WHEN PLANTED	ROOT ZONE MODE	MINIMUM SIZE BALL/POT DIAM.	MINIMUM SIZE BALL/POT DEPTH	MINIMUM SIZE ROOT SPREAD	MINIMUM SIZE PLANT HOLE DIAM.	MINIMUM SIZE PLANT HOLE DEPTH	BRACE OR GUY	FERT. UNITS REQ'D	RODENT PROTECT REQ'D	MULCH RING DIAM.
	LARGE DECIDUOUS TREES													
PSG	PRINCETON SENTRY GINKGO	GINKO BILOBA 'PRINCETON SENTRY'	75'	2" CAL.	B&B	24"	16"	-	36"	16"	GUY	4	YES	48"
SHL	SHADEMASTER HONEYLOCUST	GLEDITSIA TRIACANTHOS 'SHADEMASTER'	50'	2.5" CAL.	B&B	28"	18"	-	40"	18"	GUY	4	YES	48"
FSM	FIRESPIRE MUSCLEWOOD	CARPINUS CAROLINIANA "J.N. UPRIGHT'	50'	2.5" CAL.	B&B	28"	18"	-	40"	18"	GUY	4	YES	48"
	SMALL DECIDUOUS TREES													
RRC	ROYAL RAINDROPS CRABAPPLE	MALUS 'ROYAL RAINDROPS'	25'	2" CAL.	B&B	24"	16"	-	36"	16"	GUY	4	YES	48"
WKH	WINTER KING HAWTHORN	CRATAEGUS VIRIDIS 'WINTER KING'	25'	2.5" CAL.	B&B	28"	18"	-	40"	18"	GUY	4	YES	48"
ISL	IVORY SILK TREE LILAC	SYRINGA RETICULATA 'IVORY SILK'	25'	2" CAL.	B&B	24"	16"	-	36"	16"	GUY	4	YES	48"
	LARGE EVERGEEN TREES													
BHS	BLACK HILLS SPRUCE	PICEA GLAUCA VAR. DENSATA	40'	6'	B&B	28"	18"	-	40"	18"	GUY	4	YES	60"
	SMALL DECIDUOUS SHRUBS													
DBH	DWARF BUSH HONEYSUCKLE	DERVILLA LONICERA	2'	2' HT.	CG	18"	12"	-	30"	12"	NO	1	NO	BED
DPR	DWARF PAVEMENT ROSE	ROSA RUGOSA 'DWARF PAVEMENT'	4'	2' HT.	CG	18"	12"	-	30"	12"	NO	1	NO	BED
IBC	IROQUOIS BEAUTY BLACK CHOKEBERRY	ARONIA MELANOCARPA 'MORTON'	4'	2' HT.	CG	18"	12"	-	30"	12"	NO	1	NO	BED
	SMALL EVERGREEN SHRUBS													
BFJ	BUFFALO JUNIPER	JUNIPERUS SABINA 'BUFFALO'	2'	2' HT.	CG	18"	12"	-	30"	12"	NO	1	NO	BED
	PERENNIALS													
LBS	LITTLE BLUESTEM GRASS	SCHIZACHYRIUM SCOPARIUM	2'	1' HT.	CG	12"	12"	-	24"	12"	NO	0	NO	BED
KCC	KIT CAT CATMINT	NEPETA X KIT CAT	2'	1' HT.	CG	12"	12"	-	24"	12"	NO	0	NO	BED
MWC	MONTROSE WHITE CATMINT	CALAMINTHA NEPETA 'MONTROSE WHITE'	2'	1' HT.	CG	12"	12"	-	24"	12"	NO	0	NO	BED
BKG	BIOKOVO KARMINA GERANIUM	GERANIUM X CANTABRIGIENSE 'KARMINA'	2'	1' HT.	CG	12"	12"	-	24"	12"	NO	0	NO	BED
PDS	PRAIRIE DROPSEED	SPOROBULUS HETEROLEPSIS	2'	1' HT.	CG	12"	12"	-	24"	12"	NO	0	NO	BED
HMS	HEAVY METAL SWITCH GRASS	PANICUM VIRGATUM 'HEAVY METAL'	4'	1' HT.	CG	12"	12"	-	24"	12"	NO	0	NO	BED

ALL ITEMS ARE CATEGORY 0040
UNLESS OTHERWISE NOTED

CONCRETE SIDEWALK

STA	TO	STA	LOCATION	204.0155 REMOVING CONCRETE SIDEWALK SY	602.0411 CONCRETE SIDEWALK 5-INCH SF
506+70	-	509+49	BROWN DEER/N KILDEER COURT	186	1,672
			PROJECT 2270-04-70 TOTAL	186	1,672

COLORING CONCRETE CUSTOM

LOCATION	405.0200.01 COLORING CONCRETE CUSTOM.01 SCOFIELD RUST FIELDS CY	405.0200.02 COLORING CONCRETE CUSTOM.02 SCOFIELD SCHOONER BEIGE CY	405.0200.03 COLORING CONCRETE CUSTOM.03 SCOFIELD PLUM CHESTNUT CY
BROWN DEER/DEERBROOK TRAIL	335	55	75
BROWN DEER/N GREEN BAY RD	1,066	263	138
BROWN DEER/N KILDEER COURT	--	45	--
PROJECT 2270-04-70 TOTAL	1,401	363	213

MISC. QUANTITIES

LOCATION	SPV.0035.40 SHREDDED HARDWOOD BARK MULCH CY	SPV.0060.48 SELECT STONE MATERIAL 3'X4'X3' EACH	SPV.0060.49 SELECT STONE MATERIAL 5'X3'X5' EACH	SPV.0060.40 MASONRY PILLAR AND WALL EACH	SPV.0060.47 REMOVE, STOCKPILE, AND REINSTALL MUNICPAL MONUMENT SIGN EACH	SPV.0060.50 ARTISTIC PANELS EACH	SPV.0090.40 STEEL EDGING MATERIAL LF	SPV.0090.41 COMPACTED GRAVEL LEVELING COURSE LF	SPV.0085.40 NO MOW FESCUE SEED MIX LB	SPV.0060.51 WAYFINDING SIGN EACH
PROJECT 2270-04-70 TOTAL	290	219	10	1	1	10	1430	20	29	1

ALL ITEMS ARE CATEGORY 0040
UNLESS OTHERWISE NOTED

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LANDSCAPING TREES

CATEGORY	LOCATION	632.0101.01 CARPINUS CAROLINIANA 'J.N. UPRIGHT' B&B, 2.5-INCH CAL EACH	632.0101.02 SYRINGA RETICULATA 'IVORY SILK' B&B, 2.5-INCH CAL EACH	632.0101.03 GINKGO BILOBA 'PRINCETON SENTRY' B&B, 2.5-INCH CAL EACH	632.0101.04 MALUS ROYAL RAINDROPS' B&B, 2.5-INCH CAL EACH	632.0101.05 GLEDITSIA TRIACANTHOS 'SHADEMASTER' B&B, 2.5-INCH CAL EACH	632.0101.06 CATRAEGUS VIRIDIS 'WINTER KING' B&B, 2.5-INCH CAL EACH	632.0101.08 PICEA GLAUCA VAR. DENSATA B&B, 2.5-INCH CAL EACH	NOTE
0060		FIRESPIRE MUSCLEWOOD	IVORY SILK TREE LILAC	PRINCETON SENTRY GINKO	ROYAL RAINDROPS CRABAPPLE	SHADEMASTER HONEYLOCUST	WINTER KING HAWTHORN	BLACK HILLS SPRUCE	COMMON NAME
		2.5-INCH CAL	2-INCH CAL	2-INCH CAL	2-INCH CAL	2.5-INCH CAL	2.5-INCH CAL	2.5-INCH CAL	SIZE WHEN PLANTED
		B&B	B&B	B&B	B&B	B&B	B&B	B&B	ROOT ZONE MODE
	PROJECT 2270-04-70 TOTAL	13	18	9	17	4	18	9	

LANDSCAPING SHRUBS

CATEGORY	LOCATION	632.0201.01 DIERVILLA LONICERA 'DWARF BUSH' CG, NO. 2 EACH	632.0201.02 JUNIPERUS SABINA 'BUFFALO' CG, NO. 3 EACH	632.0201.03 ROSA RUGOSA 'DWARF PAVEMENT' CG, NO. 2 EACH	632.0201.04 ARONIA MELANOCARPA 'MORTON' CG, NO. 2 EACH	NOTE
		SEE BED SCHEDULE	SEE BED SCHEDULE	SEE BED SCHEDULE	SEE BED SCHEDULE	LABEL
0060		DWARF BUSH HONEYSUCKLE	BUFFALO JUNIPER	DWARF PAVEMENT ROSE	IRIQOUIS BEAUTY BLACK CHOKEBERRY	COMMON NAME
		NO. 2	NO. 3	NO. 2	NO. 2	SIZE WHEN PLANTED
		CG	CG	CG	CG	ROOT ZONE MODE
	PROJECT 2270-07-70 TOTAL	144	82	74	56	

PERENNIALS

LOCATION	SPV.0060.41 PERENNIALS, GERANIUM X CANTABRIGIENSE 'KARMINA' CG, NO. 1 EACH	SPV.0060.42 PERENNIALS, PANICUM VIRGATUM 'HEAVY METAL' CG, NO. 1 EACH	SPV.0060.43 PERENNIALS, NEPETA 'KIT CAT' CG, NO. 1 EACH	SPV.0060.44 PERENNIALS, SCHIZACHYRIUM SCOPARIUM 'LITTLE BLUESTEM GRASS' CG, NO. 1 EACH	SPV.0060.45 PERENNIALS, CALAMINTHA NEPETA 'MONTROSE WHITE' CG, NO. 1 EACH	SPV.0060.46 PERENNIALS, SPOROBULUS HETEROLEPSIS 'PRAIRIE DROPSEED' CG, NO. 1 EACH	NOTE
	SEE BED SCHEDULE	SEE BED SCHEDULE	SEE BED SCHEDULE	SEE BED SCHEDULE	SEE BED SCHEDULE	SEE BED SCHEDULE	LABEL
	BIOKOVO KARMINA GERANIUM	HEAVY METAL SWITCH GRASS	KIT CAT CATMINT	LITTLE BLUESTEM GRASS	MONTROSE WHITE CATMINT	PRAIRIE DROPSEED	COMMON NAME
	NO. 1	NO. 1	NO. 1	NO. 1	NO. 1	NO. 1	SIZE WHEN PLANTED
	CG	CG	CG	CG	CG	CG	ROOT ZONE MODE
PROJECT 2270-04-70 TOTAL	200	106	156	215	94	144	

TYPE II SIGN REMOVAL **2270-04-70 STH 57**

SIGN NO.	SIGN CODE	SIGN MESSAGE	638.2602 REMOVING SIGNS TYPE II [EA]	638.3000* REMOVING SMALL SIGN SUPPORTS [EA]	REMARKS / SIGN LOCATION
200R	R2-1	--	1	1	--
200AR	R2-1	--	1	1	--
201R	R1-1	--	1	1	--
202R	R5-1	--	1	1	--
203R	R1-1	--	1	1	--
204R	J1-1	--	1	1	--
205R	W12-1D	--	1	1	--
206R	D1-1	BROWN DEER RD	1	2	--
207R	W11-8	--	1	1	--
208R	W11-8	--	1	1	--
209R	R2-1	--	1	1	--
210R	R2-1	--	1	1	--
211R	R7-1D	--	1	1	--
212R	J3-1	--	1	1	--
213R	W3-3	--	1	1	--
214R	R2-1	--	1	1	--
215R	R2-1	--	1	1	--
216R	J4-1	--	1	1	ALSO REMOVE M1-85
217R	J2-2	--	1	1	--
218R	J2-1	--	1	1	--
219R	R3-7L	--	1	1	ALSO REMOVE R5-1A
220R	W4-1	--	1	1	--
221R	R1-2	--	1	1	--
222R	W5-52R	--	1	1	--
223R	W5-52R	--	1	1	--
224R	J3-1	--	1	1	--
225R	J3-1	--	1	1	ALSO REMOVE R5-1A
226R	J3-1	--	1	1	ALSO REMOVE R5-1A
227R	R1-2	--	1	1	--
228R	W3-3	--	1	1	--
229R	J4-1	--	1	1	ALSO REMOVE M1-85

TYPE II SIGN REMOVAL **2270-04-70 STH 57**

SIGN NO.	SIGN CODE	SIGN MESSAGE	638.2602 REMOVING SIGNS TYPE II [EA]	638.3000* REMOVING SMALL SIGN SUPPORTS [EA]	REMARKS / SIGN LOCATION
230R	R2-1	--	1	1	--
231R	R2-1	--	1	1	--
232R	W4-1	--	1	1	--
233R	J3-1	--	1	1	--
234R	J2-1	--	1	1	--
235R	J2-1	--	1	1	--
236R	D1-1	BROWN DEER RD	1	2	--
237R	J4-1	--	1	1	--
238R	J4-1	--	1	1	--
239R	D1-65	N DEERWOOD DR	1	2	--
240R	W3-3	--	1	1	--
241R	W3-3	--	1	1	--
242R	J1-1	--	1	1	--
243R	R2-1	--	1	1	--
244R	R2-1	--	1	1	--
245R	R1-1F	--	1	--	--
246R	R4-7	--	1	--	ALSO REMOVE R1-1F
247R	R1-1F	--	1	--	--
248R	R4-7	--	1	--	--
249R	R1-1F	--	1	--	--
250R	R3-8	--	1	1	--
251R	R1-1F	--	1	--	--
252R	R7-1D	--	1	1	--
253R	R1-1	--	1	1	--
254R	R1-1F	--	1	--	--
255R	R4-7	--	1	--	ALSO REMOVE R1-1F
256R	R1-1F	--	1	--	--
257R	R1-1F	--	1	--	ALSO REMOVE R4-7
258R	R5-1	--	1	--	ALSO REMOVE R1-1F
259R	R1-1	--	1	1	--

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TYPE II SIGN REMOVAL **2270-04-70 STH 57**

SIGN NO.	SIGN CODE	SIGN MESSAGE	638.2602 REMOVING SIGNS TYPE II [EA]	638.3000* REMOVING SMALL SIGN SUPPORTS [EA]	REMARKS / SIGN LOCATION
260R	R1-1	--	1	1	--
261R	R3-2	--	1	1	--
262R	R1-1	--	1	1	--
263R	R2-1	--	1	1	--
264R	R1-1	--	1	1	--
265R	W4-2R	--	1	1	--
266R	W4-2R	--	1	1	--
267R	--	TREE CITY	1	--	--
268R	R1-1	--	1	1	--
269R	R4-7	--	1	1	--
270R	R4-7	--	1	1	--
271R	R1-1	--	1	1	--
272R	R4-7	--	1	1	ALSO REMOVE W5-52L
273R	--	TREE CITY	1	--	--
274R	R7-1D	--	1	--	--
275R	R2-1	--	1	--	--
276R	D1-61	DONGES BAY RD	1	1	--
277R	W3-3	--	1	1	--
278R	R7-1D	--	1	1	--
279R	R1-1F	--	1	--	--
280R	R1-2	--	1	1	--
281R	R1-1F	--	1	--	--
282R	M1-94H	DONGES BAY RD	1	--	--
283R	M1-94H	DONGES BAY RD	1	--	--
284R	R7-1L	--	1	--	--
285R	R1-1F	--	1	--	--
286R	M1-94H	CEDARBURG RD	1	--	--
287R	R1-1F	--	1	--	--
288R	R7-1R	--	1	--	--
289R	R2-1	--	1	1	--

3

TYPE II SIGN REMOVAL **2270-04-70 STH 57**

SIGN NO.	SIGN CODE	SIGN MESSAGE	638.2602 REMOVING SIGNS TYPE II [EA]	638.3000* REMOVING SMALL SIGN SUPPORTS [EA]	REMARKS / SIGN LOCATION
290R	W3-3	--	1	1	--
291R	W3-3	--	1	1	--
292R	J1-1	--	1	1	ALSO REMOVE D1-61
293R	R1-1	--	--	--	SHEET 37
294R	R1-1	--	1	1	--
295R	R2-1	--	1	1	--
296R	W10-1	--	1	1	--
297R	D1-1	ARBON DR	1	2	--
298R	R4-7	--	1	1	--
299R	W11-2	--	1	1	ALSO REMOVE W16-9P
299AR	W11-2	--	1	1	ALSO REMVOE W16-9P
300R	R7-1D	--	1	1	--
301R	R4-7	--	1	1	--
302R	W11-1	--	1	1	ALSO REMOVE W16-9P
303R	W11-1	--	1	1	ALSO REMOVE W16-9P
304R	R2-1	--	1	1	--
305R	R2-1	--	1	1	--
306R	W10-1	--	1	1	--
307R	R1-1	--	1	1	--
308R	W11-1	--	1	1	ALSO REMOVE W16-7L
309R	R1-1	--	1	1	--
310R	W11-1	--	1	1	ALSO REMOVE W16-7R
311R	R5-3	--	1	1	--
312R	R4-7	--	1	1	--
313R	W10-1	--	1	1	--
314R	W10-1	--	1	1	--
315R	W10-1	--	1	1	--
316R	R3-7R	--	1	1	--
317R	W3-3	--	1	1	--
318R	W3-3	--	1	1	--
319R	J1-1	--	1	2	ALSO REMOVE D1-1 AND R7-1D

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TYPE II SIGN REMOVAL **2270-04-70 STH 57**

SIGN NO.	SIGN CODE	SIGN MESSAGE	638.2602 REMOVING SIGNS TYPE II [EA]	638.3000* REMOVING SMALL SIGN SUPPORTS [EA]	REMARKS / SIGN LOCATION
320R	R1-1	--	1	1	--
321R	R1-1	--	1	1	--
322R	W11-1	--	1	1	ALSO REMVOE W16-7R
323R	R2-1	--	1	1	--
324R	W11-1	--	1	1	ALSO REMOVE W16-9P
325R	W11-1	--	1	1	ALSO REMOVE W16-9P
326R	R2-1	--	1	1	--
327R	R2-1	--	1	1	--
328R	R1-1	--	1	1	--
329R	R6-2R	--	1	1	ALSO REMOVE W12-1D AND R5-1
330R	R4-7	--	1	1	--
331R	W12-1D	--	1	1	--
332R	R1-1	--	1	1	--
333R	R3-50R	--	1	--	--
334R	R3-7R	--	1	1	--
335R	J3-1	--	1	1	--
336R	J3-1	--	1	1	--
337R	R7-1D	--	1	1	--
338R	J4-1	--	1	1	--
339R	J3-1	--	1	1	--
340R	R3-18	--	1	1	--
341R	R4-7	--	1	1	--
342R	R5-1	--	1	--	--
343R	R1-1	--	1	1	--
344R	R1-1F	--	1	--	--
345R	W12-1D	--	1	1	--
346R	J3-1	--	1	1	--
347R	J3-1	--	1	1	--
348R	R3-1	--	1	--	--
349R	R4-7	--	1	--	--

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TYPE II SIGN REMOVAL **2270-04-70 STH 57**

SIGN NO.	SIGN CODE	SIGN MESSAGE	638.2602 REMOVING SIGNS TYPE II [EA]	638.3000* REMOVING SMALL SIGN SUPPORTS [EA]	REMARKS / SIGN LOCATION
350R	R6-2L	--	1	--	--
351R	W5-52R	--	1	1	--
352R	J3-2	--	1	1	--
353R	J2-1	--	1	1	--
354R	J2-1	--	1	1	--
355R	W5-52R	--	1	1	--
356R	R6-2L	--	1	--	--
357R	R4-7	--	1	--	--
358R	R4-7	--	1	--	--
359R	J3-1	--	1	--	ALSO REMOVE R3-18
360R	J3-1	--	1	1	ALSO REMOVE W12-1D
361R	D1-65	KILDEER CT	1	2	--
362R	R3-55L	--	1	1	--
363R	J4-1	--	1	1	--
364R	J3-1	--	1	1	--
365R	R1-1	--	1	1	--
366R	J3-1	--	1	--	--
367R	R1-1F	--	1	--	ALSO REMOVE R5-1
368R	W12-1D	--	1	1	--
369R	R3-8	--	1	1	ALSO REMOVE R5-1
370R	J3-1	--	1	1	--
371R	R3-1	--	1	1	--
372R	J3-2	--	1	2	--
373R	D1-1	GREEN BAY RD	1	2	--
374R	J2-1	--	1	--	--
375R	J2-1	--	1	1	--
376R	J2-1	--	1	1	--
377R	R7-1D	--	1	1	--
378R	R2-1	--	1	1	--
379R	R2-1	--	1	1	--

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TYPE II SIGN REMOVAL **2270-04-70 STH 57**

SIGN NO.	SIGN CODE	SIGN MESSAGE	638.2602 REMOVING SIGNS TYPE II [EA]	638.3000* REMOVING SMALL SIGN SUPPORTS [EA]	REMARKS / SIGN LOCATION
380R	R3-7R	--	1	1	--
381R	R1-1F	--	1	--	ALSO REMOVE R5-1
382R	R3-20LL	--	1	1	--
383R	J4-1	--	1	1	--
384R	R7-1D	--	1	1	--
385R	R10-50L	--	1	--	--
386R	R4-7	--	1	1	--
387R	W11-3	--	1	1	ALSO REMOVE W57-51
388R	W11-3	--	1	1	ALSO REMOVE W57-51
--	--	--	--	--	--
	TOTALS		190	159 *	

* QUANTITIES ALSO SHOWN ELSEWHERE

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SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	638.3000* REMOVING SMALL SIGN SUPPORTS [EA]	634.0618 WOOD POSTS 4"X 6"x18' [EA]	634.0622 WOOD POSTS 4"X 6"x22' [EA]	634.0814 POSTS TUBULAR STEEL 2"X2"X14' [EA]	638.2102* MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
200	R7-1D(2M)	--	24	x	30	5.000	--	--	--	--	--	1	--	--	--
201	R6-2R(2S)	--	24	x	30	5.000	--	--	--	1	--	--	--	--	--
202	R3-53R(2S)	--	24	x	30	5.000	--	--	--	1	--	--	--	--	--
203	R1-1(3)	--	36	x	36	7.460	--	--	--	1	--	--	--	--	--
204	R4-7(2M)	--	24	x	30	5.000	--	--	--	1	--	--	--	--	--
205	R3-2(2S)	--	24	x	24	4.000	--	--	--	--	--	--	--	204	--
206	R5-1(2M)	--	36	x	36	9.000	--	--	--	1	--	--	--	--	--
207	W12-1D(2S)	--	24	x	24	--	4.000	--	--	1	--	--	--	--	2 FT MOUNT HEIGHT
208	W11-2(2M)	--	36	x	36	--	9.000	--	--	1	--	--	--	--	--
209	W16-7R(2M)	--	30	x	18	--	3.750	--	--	--	--	--	--	208	--
210	W11-2(2M)	--	36	x	36	--	9.000	--	--	1	--	--	--	--	--
211	W16-7L(2M)	--	30	x	18	--	3.750	--	--	--	--	--	--	210	--
212	R5-1(2M)	--	36	x	36	9.000	--	--	--	1	--	--	--	--	--
213	W11-2(2M)	--	36	x	36	--	9.000	--	--	--	--	--	--	212	--
214	W16-7L(2M)	--	30	x	18	--	3.750	--	--	--	--	--	--	212	--
215	W11-2(2M)	--	36	x	36	--	9.000	--	--	1	--	--	--	--	--
216	W16-7R(2M)	--	30	x	18	--	3.750	--	--	--	--	--	--	215	--
217	R5-1A(2M)	--	42	x	30	8.750	--	--	--	1	--	--	--	--	--
218	R3-7R(3)	--	36	x	36	9.000	--	--	--	--	--	--	--	217	--
219	R7-1D(2M)	--	24	x	30	5.000	--	--	--	--	--	1	--	--	--
220	W11-8(2M)	--	36	x	36	--	9.000	--	--	1	--	--	--	--	--
221	W11-8(2M)	--	36	x	36	--	9.000	--	--	1	--	--	--	--	--
222	W3-3(2M)	--	36	x	36	--	9.000	--	--	1	--	--	--	--	TEMPORARY FLAGS INCIDENTAL
223	W3-3(2M)	--	36	x	36	--	9.000	--	--	1	--	--	--	--	TEMPORARY FLAGS INCIDENTAL
224	R7-1D(2M)	--	24	x	30	5.000	--	--	--	--	--	1	--	--	--
225	J1-1(2M)	--	24	x	39	6.500	--	--	--	1	--	--	--	--	--
	M2-1	--	21	x	15										
	M1-6	STH 100	24	x	24										
226	J1-1(2M)	--	24	x	39	6.500	--	--	--	1	--	--	--	--	--
	M2-1	--	21	x	15										
	M1-6	STH 100	24	x	24										
227	W11-2(2M)	--	36	x	36	--	9.000	--	--	1	--	--	--	--	--
228	W16-9P(2M)	--	30	x	18	--	3.750	--	--	--	--	--	--	227	--
229	W11-2(2M)	--	36	x	36	--	9.000	--	--	1	--	--	--	--	--
230	W16-9P(2M)	--	30	x	18	--	3.750	--	--	--	--	--	--	229	--
231	--	NO THRU TRAFFIC IN CURB LANE	36	x	48	12.000	--	--	--	1	--	--	--	--	--

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	638.3000* REMOVING SMALL SIGN SUPPORTS [EA]	634.0618 WOOD POSTS 4"X 6"x18' [EA]	634.0622 WOOD POSTS 4"X 6"x22' [EA]	634.0814 POSTS TUBULAR STEEL 2"X2"X14' [EA]	638.2102* MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
232	R7-1D(2M)	--	24	x	30	5.000	--	--	--	--	--	1	--	--	--
233	R2-1(2M)	--	30	x	36	7.500	--	--	--	1	--	--	--	--	--
234	R2-1(2M)	--	30	x	36	7.500	--	--	--	1	--	--	--	--	--
235	J3-1(2M)	--	24	x	57	9.500	--	--	--	1	--	--	--	--	--
	M3-2	EAST	24	x	12										
	M1-6	STH 100	24	x	24										
	M6-1	--	21	x	21										
236	J3-1(2M)	--	24	x	57	9.500	--	--	--	1	--	--	--	--	--
	M3-4	WEST	24	x	12										
	M1-6	STH 100	24	x	24										
	M6-1	--	21	x	21										
237	R3-20L(2M)	--	24	x	36	6.000	--	--	--	1	--	--	--	--	--
238	R7-1D(2M)	--	24	x	30	5.000	--	--	--	--	--	1	--	--	--
239	D1-65	W BROWN DEER RD	96	x	21	14.000	--	--	--	2	--	--	--	--	--
240	D1-65	W BROWN DEER RD	96	x	21	14.000	--	--	--	2	--	--	--	--	--
241	J2-1(2M)	--	24	x	69	11.500	--	--	--	1	--	--	--	--	--
	MB4-1	ALTERNATE	24	x	12										
	MB3-1	NORTH	24	x	12										
	M1-1	IH 43	24	x	24										
	MB5-1R	--	21	x	21										
242	J2-2(2M)	--	48	x	57	19.000	--	--	--	1	--	--	--	--	--
	M3-4	WEST	24	x	12										
	M1-6	STH 100	24	x	24										
	M5-1L	--	21	x	21										
	M3-2	EAST	24	x	12										
	M1-6	STH 100	24	x	24										
	M5-1R	--	21	x	21										
243	J2-2(2M)	--	48	x	57	19.000	--	--	--	1	--	--	--	--	--
	M3-4	WEST	24	x	12										
	M1-6	STH 100	24	x	24										
	M5-1L	--	21	x	21										
	M3-2	EAST	24	x	12										
	M1-6	STH 100	24	x	24										
	M5-1R	--	21	x	21										
244	W9-62(2M)	--	48	x	60	--	20.000	--	--	--	--	--	--	--	INSTALL ON S-40-3092 STA 117+45
245	J4-1(2M)	--	24	x	36	6.000	--	--	--	1	--	--	--	--	--
	M3-3	SOUTH	24	x	12										
	M1-6	STH 57	24	x	24										

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	638.3000* REMOVING SMALL SIGN SUPPORTS [EA]	634.0618 WOOD POSTS 4"X 6"x18' [EA]	634.0622 WOOD POSTS 4"X 6"x22' [EA]	634.0814 POSTS TUBULAR STEEL 2"X2"X14' [EA]	638.2102* MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
246	R6-3(2S)	--	30	x	24	5.000	--	--	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
247	R1-1F(3)	--	36	x	36	--	--	7.460	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
248	R6-2L(2S)	--	24	x	30	5.000	--	--	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
249	M1-94S	[100] W BROWN DEER RD	120	x	18	15.000	--	--	--	--	--	--	--	--	INSTALL ON MAST ARM
250	R4-7(2M)	--	24	x	30	5.000	--	--	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
251	R5-1(2M)	--	36	x	36	9.000	--	--	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
252	R5-1(2M)	--	36	x	36	9.000	--	--	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
253	R6-2L(2S)	--	24	x	30	5.000	--	--	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
254	W11-2(2M)	--	36	x	36	--	9.000	--	--	1	--	--	--	--	--
255	W16-7L(2M)	--	30	x	18	--	3.750	--	--	--	--	--	--	254	--
256	R1-1F(3)	--	36	x	36	--	--	7.460	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
257	W12-1D(2S)	--	24	x	24	--	4.000	--	--	1	--	--	--	--	2 FT MOUNT HEIGHT
258	R6-3(2S)	--	30	x	24	5.000	--	--	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
259	R1-1F(3)	--	36	x	36	--	--	7.460	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
260	R6-3(2S)	--	30	x	24	5.000	--	--	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
261	R1-1F(3)	--	36	x	36	--	--	7.460	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
262	R3-8LL(2S)	--	36	x	30	7.500	--	--	--	1	--	--	--	--	--
263	R5-1A(2M)	--	42	x	30	8.750	--	--	--	--	--	--	--	264	--
264	J3-1(2M)	--	24	x	69	11.500	--	--	--	1	--	--	--	--	--
	MB4-1	ALTERNATE	24	x	12										
	MB3-1	NORTH	24	x	12										
	M1-1	IH43	24	x	24										
	MB6-1	--	21	x	21										
265	R3-20LL(2M)	--	24	x	36	6.000	--	--	--	1	--	--	--	--	--
266	R6-2L(2S)	--	24	x	30	5.000	--	--	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
267	R5-1(2M)	--	36	x	36	9.000	--	--	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
268	R5-1(2M)	--	36	x	36	9.000	--	--	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
269	R1-1F(3)	--	36	x	36	--	--	7.460	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
270	W11-2(2M)	--	36	x	36	--	9.000	--	--	1	--	--	--	--	--
271	W16-7L(2M)	--	30	x	18	--	3.750	--	--	--	--	--	--	270	--
272	R6-3(2S)	--	30	x	24	5.000	--	--	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
273	R1-1F(3)	--	36	x	36	--	--	7.460	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
274	R6-3(2S)	--	30	x	24	5.000	--	--	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
275	R1-1F(3)	--	36	x	36	--	--	7.460	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
276	W12-1D(2S)	--	24	x	24	--	4.000	--	--	1	--	--	--	--	2 FT MOUNT HEIGHT
277	R6-3(2S)	--	30	x	24	5.000	--	--	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
278	R1-1F(3)	--	36	x	36	--	--	7.460	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
279	R6-2L(2S)	--	24	x	30	5.000	--	--	--	--	--	--	--	--	MOUNT ON SIGNAL POLE

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SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	638.3000* REMOVING SMALL SIGN SUPPORTS [EA]	634.0618 WOOD POSTS 4"X 6"x18' [EA]	634.0622 WOOD POSTS 4"X 6"x22' [EA]	634.0814 POSTS TUBULAR STEEL 2"X2"X14' [EA]	638.2102* MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
280	R4-7(2M)	--	24	x	30	5.000	--	--	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
281	M1-94S	[100] W BROWN DEER RD	120	x	18	15.000	--	--	--	--	--	--	--	--	INSTALL ON MAST ARM
282	R3-20LL(2M)	--	24	x	36	6.000	--	--	--	1	--	--	--	--	--
283	R3-8LL(2S)	--	36	x	30	7.500	--	--	--	1	--	--	--	--	--
284	R5-1A(2M)	--	42	x	30	8.750	--	--	--	--	--	--	--	285	--
285	J3-1(2M)	--	24	x	57	9.500	--	--	--	1	--	--	--	--	--
	M3-4	WEST	24	x	12										
	M1-6	STH 100	24	x	24										
	M6-1	--	21	x	21										
286	R7-1D(2M)	--	24	x	30	5.000	--	--	--	--	--	1	--	--	--
287	J3-1(2M)	--	24	x	57	9.500	--	--	--	1	--	--	--	--	--
	M3-2	EAST	24	x	12										
	M1-6	STH 100	24	x	24										
	M6-1	--	21	x	21										
288	J3-1(2M)	--	24	x	69	11.500	--	--	--	1	--	--	--	--	--
	MB4-1	ALTERNATE	24	x	12										
	MB3-3	SOUTH	24	x	12										
	M1-1	IH 43	24	x	24										
	MB6-1	--	21	x	21										
289	R3-20L(2M)	--	24	x	36	6.000	--	--	--	1	--	--	--	--	--
290	W4-2R(2M)	--	36	x	36	--	9.000	--	--	1	--	--	--	--	--
291	R7-1D(2M)	--	24	x	30	5.000	--	--	--	--	--	1	--	--	--
292	R2-1(2M)	40 MPH	30	x	36	7.500	--	--	--	1	--	--	--	--	--
293	R2-1(2M)	40 MPH	30	x	36	7.500	--	--	--	1	--	--	--	--	--
294	W9-62(2M)	--	48	x	60	--	20.000	--	--	--	--	--	--	--	INSTALL ON S-40-3093
295	J4-1(2M)	--	24	x	36	6.000	--	--	--	1	--	--	--	--	--
	M3-1	NORTH	24	x	12										
	M1-6	STH 57	24	x	24										
296	J4-1(2M)	--	24	x	48	8.000	--	--	--	1	--	--	--	--	--
	MB4-1	ALTERNATE	24	x	12										
	MB3-1	NORTH	24	x	12										
	M1-1	IH 43	24	x	24										
297	D1-65	W BROWN DEER RD	96	x	21	14.000	--	--	--	2	--	--	--	--	--
298	D1-65	W BROWN DEER RD	96	x	21	14.000	--	--	--	2	--	--	--	--	--

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	638.3000* REMOVING SMALL SIGN SUPPORTS [EA]	634.0618 WOOD POSTS 4"X 6"x18' [EA]	634.0622 WOOD POSTS 4"X 6"x22' [EA]	634.0814 POSTS TUBULAR STEEL 2"X2"X14' [EA]	638.2102* MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
299	J2-2(2M)	--	48	x	57	19.000	--	--	--	1	--	--	--	--	--
	M3-2	EAST	24	x	12										
	M1-6	STH 100	24	x	24										
	M5-1L	--	21	x	21										
	M3-4	WEST	24	x	12										
	M1-6	STH 100	24	x	24										
	M5-1R	--	21	x	21										
300	J2-2(2M)	--	48	x	57	19.000	--	--	--	1	--	--	--	--	--
	M3-2	EAST	24	x	12										
	M1-6	STH 100	24	x	24										
	M5-1L	--	21	x	21										
	M3-4	WEST	24	x	12										
	M1-6	STH 100	24	x	24										
	M5-1R	--	21	x	21										
301	J2-1(2M)	--	24	x	69	11.500	--	--	--	1	--	--	--	--	--
	MB4-1	ALTERNATE	24	x	12										
	MB3-3	SOUTH	24	x	12										
	M1-1	IH 43	24	x	24										
	MB5-1L	--	21	x	21										
302	W3-3(2M)	--	36	x	36	--	9.000	--	--	1	--	--	--	--	TEMPORARY FLAGS INCIDENTAL
303	W3-3(2M)	--	36	x	36	--	9.000	--	--	1	--	--	--	--	TEMPORARY FLAGS INCIDENTAL
304	J1-1(2M)	--	24	x	39	6.500	--	--	--	1	--	--	--	--	--
	M2-1	--	21	x	15										
	M1-6	STH 100	24	x	24										
305	J1-1(2M)	--	24	x	39	6.500	--	--	--	1	--	--	--	--	--
	M2-1	--	21	x	15										
	M1-6	STH 100	24	x	24										
306	R3-20L(2M)	--	24	x	36	6.000	--	--	--	1	--	--	--	--	--
307	R7-1D(2M)	--	24	x	30	5.000	--	--	--	--	--	1	--	--	--
308	D1-65	N DEERWOOD DR	84	x	21	12.250	--	--	--	2	--	--	--	--	--
309	D1-65	N DEERWOOD DR	84	x	21	12.250	--	--	--	2	--	--	--	--	--
310	W3-3(2M)	--	36	x	36	--	9.000	--	--	1	--	--	--	--	--
311	W3-3(2M)	--	36	x	36	--	9.000	--	--	1	--	--	--	--	--
312	R7-1D(2M)	--	24	x	30	5.000	--	--	--	--	--	--	--	313	--
313	R2-1(2M)	40 MPH	30	x	36	7.500	--	--	--	1	--	--	--	--	--
314	R2-1(2M)	40 MPH	30	x	36	7.500	--	--	--	--	--	--	--	--	--
315	J4-1(2M)	--	24	x	36	6.000	--	--	--	1	--	--	--	--	--
	M3-3	SOUTH	24	x	12										
	M1-6	STH 57	24	x	24										

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	638.3000* REMOVING SMALL SIGN SUPPORTS [EA]	634.0618 WOOD POSTS 4"X 6"x18' [EA]	634.0622 WOOD POSTS 4"X 6"x22' [EA]	634.0814 POSTS TUBULAR STEEL 2"X2"X14' [EA]	638.2102* MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
316	M1-94H	N DEERWOOD DR	--	x	--	--	--	--	--	--	--	--	1	--	PERMITTED SIGN - INSTALL ON MAST ARM
317	R6-2L(2S)	--	24	x	30	5.000	--	--	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
318	J13-1(2S)	--	24	x	45	7.500	--	--	--	1	--	--	--	--	--
	M1-6	STH 57	24	x	24										
	M6-4	--	21	x	21										
319	R6-3(2S)	--	30	x	24	5.000	--	--	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
320	R1-1F(3)	--	36	x	36	--	--	7.460	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
321	M1-94H	N GREEN BAY RD	--	x	--	--	--	--	--	--	--	--	1	--	PERMITTED SIGN - INSTALL ON MAST ARM
322	R5-1(2M)	--	36	x	36	9.000	--	--	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
323	R1-1F(3)	--	36	x	36	--	--	7.460	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
324	R1-1F(3)	--	36	x	36	--	--	7.460	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
325	R4-7(2M)	--	24	x	30	5.000	--	--	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
326	R4-7(2M)	--	24	x	30	5.000	--	--	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
327	R7-1D(2M)	--	24	x	30	5.000	--	--	--	--	--	1	--	--	--
328	R6-2L(2S)	--	24	x	30	5.000	--	--	--	1	--	--	--	--	--
329	M1-94H	N DEERWOOD DR	--	x	--	--	--	--	--	--	--	--	1	--	PERMITTED SIGN - INSTALL ON MAST ARM
330	J13-1(2S)	--	24	x	45	7.500	--	--	--	1	--	--	--	--	--
	M1-6	STH 57	24	x	24										
	M6-4	--	21	x	21										
331	R6-3(2S)	--	30	x	24	5.000	--	--	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
332	R1-1F(3)	--	36	x	36	--	--	7.460	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
333	R3-8LF(2S)	--	36	x	30	7.500	--	--	--	1	--	--	--	--	--
334	M1-94H	N GREEN BAY RD	--	x	--	--	--	--	--	--	--	--	1	--	PERMITTED SIGN - INSTALL ON MAST ARM
335	R5-1(2M)	--	36	x	36	9.000	--	--	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
336	R1-1F(3)	--	36	x	36	--	--	7.460	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
337	R5-1(2M)	--	36	x	36	9.000	--	--	--	1	--	--	--	--	--
338	R1-1F(3)	--	36	x	36	--	--	7.460	--	--	--	--	--	337	--
339	R1-1F(3)	--	36	x	36	--	--	7.460	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
340	R3-20LL(2M)	--	24	x	36	6.000	--	--	--	1	--	--	--	--	--
341	R5-1A(2M)	--	42	x	30	8.750	--	--	--	1	--	--	--	--	--
342	R5-1A(2M)	--	42	x	30	8.750	--	--	--	1	--	--	--	--	--
343	R6-2L(2S)	--	24	x	30	5.000	--	--	--	1	--	--	--	--	--
344	R4-7(2M)	--	24	x	30	5.000	--	--	--	1	--	--	--	--	--
345	R6-1R(2S)	--	36	x	12	3.000	--	--	--	1	--	--	--	--	--

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	638.3000* REMOVING SMALL SIGN SUPPORTS [EA]	634.0618 WOOD POSTS 4"X 6"x18' [EA]	634.0622 WOOD POSTS 4"X 6"x22' [EA]	634.0814 POSTS TUBULAR STEEL 2"X2"X14' [EA]	638.2102* MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
346	R1-1(3)	--	36	x	36	7.460	--	--	--	--	--	--	--	345	--
347	R6-3A(2S)	--	30	x	24	5.000	--	--	--	--	--	--	--	345	--
348	R6-2L(2S)	--	24	x	30	5.000	--	--	--	1	--	--	--	--	--
349	R6-2L(2S)	--	24	x	30	5.000	--	--	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
350	M1-94H	W SCHROEDER DR	--	x	--	--	--	--	--	--	--	--	1	--	PERMITTED SIGN - INSTALL ON MAST ARM
351	J13-1(2S)	--	24	x	45	7.500	--	--	--	1	--	--	--	--	--
	M1-6	STH 57	24	x	24										
	M6-4	--	21	x	21										
352	R6-3(2S)	--	30	x	24	5.000	--	--	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
353	R1-1F(3)	--	36	x	36	--	--	7.460	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
354	R5-1(2S)	--	30	x	30	6.250	--	--	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
355	R4-7(2M)	--	24	x	30	5.000	--	--	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
356	R1-1F(3)	--	36	x	36	--	--	7.460	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
357	R1-1F(3)	--	36	x	36	--	--	7.460	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
358	R5-1(2M)	--	36	x	36	9.000	--	--	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
359	M1-94H	N GREEN BAY RD	--	x	--	--	--	--	--	--	--	--	1	--	PERMITTED SIGN - INSTALL ON MAST ARM
360	R4-7(2M)	--	24	x	30	5.000	--	--	--	1	--	--	--	--	--
361	M1-94H	N GREEN BAY RD	--	x	--	--	--	--	--	--	--	--	1	--	PERMITTED SIGN - INSTALL ON MAST ARM
362	R1-1F(3)	--	36	x	36	--	--	7.460	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
363	R1-1F(3)	--	36	x	36	--	--	7.460	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
364	R5-1(2M)	--	36	x	36	9.000	--	--	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
365	R4-7(2M)	--	24	x	30	5.000	--	--	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
366	M1-94H	W SCHROEDER DR	--	x	--	--	--	--	--	--	--	--	1	--	PERMITTED SIGN - INSTALL ON MAST ARM
367	R6-3(2S)	--	30	x	24	5.000	--	--	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
368	R1-1F(3)	--	36	x	36	--	--	7.460	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
369	J13-1(2S)	--	24	x	45	7.500	--	--	--	1	--	--	--	--	--
	M1-6	STH 57	24	x	24										
	M6-4	--	21	x	21										
370	R6-2L(2S)	--	24	x	30	5.000	--	--	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
371	W9-1R(2S)	--	36	x	36	--	9.000	--	--	1	--	--	--	--	--
372	R6-2R(2S)	--	24	x	30	5.000	--	--	--	1	--	--	--	--	--
373	R6-1R(2S)	--	36	x	12	3.000	--	--	--	1	--	--	--	--	--
374	R1-1	--	--	x	--	--	--	--	1	--	--	--	1	373	MOVE TO NEW POST
375	R3-53R(2S)	--	24	x	30	5.000	--	--	--	1	--	--	--	--	--
376	R6-1R(2S)	--	36	x	12	3.000	--	--	--	1	--	--	--	--	--
377	R1-1(3)	--	36	x	36	7.460	--	--	--	--	--	--	--	376	--
378	R6-3(2S)	--	30	x	24	5.000	--	--	--	--	--	--	--	376	--
379	R6-2L(2S)	--	24	x	30	5.000	--	--	--	1	--	--	--	--	--

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SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	638.3000* REMOVING SMALL SIGN SUPPORTS [EA]	634.0618 WOOD POSTS 4"X 6"x18' [EA]	634.0622 WOOD POSTS 4"X 6"x22' [EA]	634.0814 POSTS TUBULAR STEEL 2"X2"X14' [EA]	638.2102* MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
380	R5-1(2M)	--	36	x	36	9.000	--	--	--	1	--	--	--	--	--
381	R6-2L(2S)	--	24	x	30	5.000	--	--	--	1	--	--	--	--	--
382	R1-1(3)	--	36	x	36	7.460	--	--	--	1	--	--	--	--	--
383	R6-3(2S)	--	30	x	24	5.000	--	--	--	--	--	--	--	382	--
384	R5-1(2M)	--	36	x	36	9.000	--	--	--	1	--	--	--	--	--
385	W4-2R(2M)	--	36	x	36	--	9.000	--	--	--	--	--	--	384	--
386	R6-2R(2S)	--	24	x	30	5.000	--	--	--	1	--	--	--	--	--
387	R4-7(2M)	--	24	x	30	5.000	--	--	--	1	--	--	--	--	--
388	R6-2L(2S)	--	24	x	30	5.000	--	--	--	1	--	--	--	--	--
389	R5-1(2M)	--	36	x	36	9.000	--	--	--	1	--	--	--	--	--
390	R4-7(2M)	--	24	x	30	5.000	--	--	--	1	--	--	--	--	--
391	R3-2(2S)	--	24	x	24	4.000	--	--	--	--	--	--	--	390	--
392	R6-1R(2S)	--	36	x	12	3.000	--	--	--	1	--	--	--	--	--
393	R1-1(3)	--	36	x	36	7.460	--	--	--	--	--	--	--	392	--
394	R6-3(2S)	--	30	x	24	5.000	--	--	--	--	--	--	--	392	--
395	R5-1(2M)	--	36	x	36	9.000	--	--	--	1	--	--	--	--	--
396	R2-1(2M)	--	30	x	36	7.500	--	--	--	--	--	--	--	395	--
397	R6-2L(2S)	--	24	x	30	5.000	--	--	--	1	--	--	--	--	--
398	R5-1(2M)	--	36	x	36	9.000	--	--	--	1	--	--	--	--	--
399	R4-7(2M)	--	24	x	30	5.000	--	--	--	1	--	--	--	--	--
400	R4-7(2M)	--	24	x	30	5.000	--	--	--	1	--	--	--	--	--
401	R6-1R(2S)	--	36	x	12	3.000	--	--	--	1	--	--	--	--	--
402	R1-1(3)	--	36	x	36	7.460	--	--	--	--	--	--	--	401	--
403	R6-3A(2S)	--	30	x	24	5.000	--	--	--	--	--	--	--	401	--
404	R6-1R(2S)	--	36	x	12	3.000	--	--	--	1	--	--	--	--	--
405	R1-1(3)	--	36	x	36	7.460	--	--	--	--	--	--	--	404	--
406	R6-3(2S)	--	30	x	24	5.000	--	--	--	--	--	--	--	404	--
407	R6-2L(2S)	--	24	x	30	5.000	--	--	--	1	--	--	--	--	--
408	R4-7(2M)	--	24	x	30	5.000	--	--	--	1	--	--	--	--	--
409	R4-7(2M)	--	24	x	30	5.000	--	--	--	1	--	--	--	--	--
410	I2-2	OZAUKEE CO	--	x	--	--	--	--	1	2	--	--	1	--	--
411	I2-3	MEQUON POPULATION	--	x	--	--	--	--	--	--	--	--	1	410	--
412	R6-1R(2S)	--	36	x	12	3.000	--	--	--	1	--	--	--	--	--
413	R1-1	--	36	x	36	7.460	--	--	--	--	--	--	--	412	--
414	R6-3(2S)	--	30	x	24	5.000	--	--	--	--	--	--	--	412	--

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.]	x	SIGN SIZE H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	638.3000* REMOVING SMALL SIGN SUPPORTS [EA]	634.0618 WOOD POSTS 4"X 6"x18' [EA]	634.0622 WOOD POSTS 4"X 6"x22' [EA]	634.0814 POSTS TUBULAR STEEL 2"X2"X14' [EA]	638.2102* MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
415	R6-2L(2S)	--	24	x	30	5.000	--	--	--	1	--	--	--	--	--
416	--	NO ENGINE BRAKING..	--	x	--	--	--	--	--	1	--	--	1	--	MOVE TO SEPARATE POST
417	W5-52L(2M)	--	12	x	36	--	3.000	--	--	1	--	--	--	--	4 FT MOUNT HEIGHT
418	R3-4(2S)	--	24	x	24	--	4.000	--	--	1	--	--	--	--	--
419	R4-7(3)	--	36	x	48	12.000	--	--	--	--	--	--	--	418	--
420	W5-54(2S)	--	18	x	18	--	2.250	--	--	--	--	--	--	418	--
421	--	NO PARKING ON CITY....	--	x	--	--	--	--	--	1	--	--	1	--	MOVE TO SEPARATE POST
422	W6-3(2M)	--	36	x	36	--	9.000	--	--	1	--	--	--	--	--
423	R7-1D(2S)	--	18	x	24	3.000	--	--	--	--	--	1	--	--	--
424	R7-1D(2S)	--	18	x	24	3.000	--	--	--	--	--	1	--	--	--
425	R7-1D(2S)	--	18	x	24	3.000	--	--	--	--	--	1	--	--	--
426	R2-1(2S)	45 MPH	24	x	30	5.000	--	--	--	1	--	--	--	--	--
427	D1-65	W DONGES BAY RD	96	x	21	14.000	--	--	--	2	--	--	--	--	--
428	W3-3(2S)	--	36	x	36	--	9.000	--	--	1	--	--	--	--	--
429	J4-1(2S)	--	24	x	36	6.000	--	--	--	1	--	--	--	--	--
	M3-3	SOUTH	24	x	12										
	M1-6	STH 57	24	x	24										
430	R3-8LF(2S)	--	36	x	30	7.500	--	--	--	1	--	--	--	--	--
431	R7-1D(2S)	--	18	x	24	3.000	--	--	--	--	--	1	--	--	--
432	R3-7L(2S)	--	30	x	30	6.250	--	--	--	1	--	--	--	--	--
433	R1-1F(3)	--	36	x	36	--	--	7.460	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
434	W12-1D(2S)	--	24	x	24	--	4.000	--	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
435	R1-1(3)	--	36	x	36	7.460	--	--	--	--	--	--	--	--	MOUNT ON LIGHT POLE
436	R3-8LF(2S)	--	36	x	30	7.500	--	--	--	1	--	--	--	--	--
437	R1-1F(3)	--	36	x	36	--	--	7.460	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
438	M1-94H	W DONGES BAY RD	108	x	18	13.500	--	--	--	--	--	--	--	--	INSTALL ON MAST ARM
439	W12-1D(2S)	--	24	x	24	--	4.000	--	--	1	--	--	--	--	2 FT MOUNT HEIGHT
440	R1-1F(3)	--	36	x	36	--	--	7.460	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
441	M1-94S	[57] N CEDARBURG RD	108	x	18	13.500	--	--	--	--	--	--	--	--	INSTALL ON MAST ARM
442	R1-1F(3)	--	36	x	36	--	--	7.460	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
443	M1-94H	W DONGES BAY RD	108	x	18	13.500	--	--	--	--	--	--	--	--	INSTALL ON MAST ARM
444	R7-1L(2S)	--	18	x	24	3.000	--	--	--	--	--	1	--	--	--
445	M1-94S	[57] N CEDARBURG RD	108	x	18	13.500	--	--	--	--	--	--	--	--	INSTALL ON MAST ARM
446	R1-1(3)	--	36	x	36	7.460	--	--	--	--	--	--	--	--	MOUNT ON LIGHT POLE
447	R7-1R(2S)	--	18	x	24	3.000	--	--	--	--	--	1	--	--	--
448	R3-7L(2S)	--	30	x	30	6.250	--	--	--	1	--	--	--	--	--
449	J4-1(2S)	--	24	x	36	6.000	--	--	--	1	--	--	--	--	--
	M3-1	NORTH	24	x	12										
	M1-6	STH 57	24	x	24										

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	638.3000* REMOVING SMALL SIGN SUPPORTS [EA]	634.0618 WOOD POSTS 4"X 6"x18' [EA]	634.0622 WOOD POSTS 4"X 6"x22' [EA]	634.0814 POSTS TUBULAR STEEL 2"X2"X14' [EA]	638.2102* MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
450	R2-1(2S)	45 MPH	24	x	30	5.000	--	--	--	1	--	--	--	--	--
451	R3-8LAR(2S)	--	54	x	30	11.250	--	--	--	2	--	--	--	--	--
452	W3-3(2S)	--	36	x	36	--	9.000	--	--	1	--	--	--	--	--
453	W3-3(2S)	--	36	x	36	--	9.000	--	--	1	--	--	--	--	--
454	D1-65	W DONGES BAY RD	96	x	21	14.000	--	--	--	2	--	--	--	--	--
455	R2-1(2S)	45 MPH	24	x	30	5.000	--	--	--	1	--	--	--	--	--
456	R2-1(2S)	30 MPH	24	x	30	5.000	--	--	--	1	--	--	--	--	--
457	J1-1(2S)	--	24	x	39	6.500	--	--	--	--	--	--	--	458	--
	M2-1	--	21	x	15										
	M1-6	STH 167	24	x	24										
458	D1-65	W MEQUON RD	72	x	21	10.500	--	--	--	2	--	--	--	--	--
459	W3-3(2S)	--	36	x	36	--	9.000	--	--	1	--	--	--	--	--
460	W6-3(2S)	--	36	x	36	--	9.000	--	--	1	--	--	--	--	--
461	R5-1(2S)	--	30	x	30	6.250	--	--	--	1	--	--	--	--	--
462	R6-1R(2S)	--	36	x	12	3.000	--	--	--	1	--	--	--	--	--
463	R1-1(3)	--	36	x	36	7.460	--	--	--	--	--	--	--	462	--
464	R6-3(2S)	--	30	x	24	5.000	--	--	--	--	--	--	--	462	--
465	R6-1R(2S)	--	36	x	12	3.000	--	--	--	1	--	--	--	--	--
466	R1-1(3)	--	36	x	36	7.460	--	--	--	--	--	--	--	465	--
467	R6-3(2S)	--	30	x	24	5.000	--	--	--	--	--	--	--	465	--
468	R2-1(2S)	40 MPH	24	x	30	5.000	--	--	--	1	--	--	--	--	--
469	W10-1(3)	--	36	x	36	--	7.070	--	--	1	--	--	--	--	--
470	D1-61	N ARBON DR	78	x	15	8.125	--	--	--	2	--	--	--	--	--
471	R6-2L(2S)	--	24	x	30	5.000	--	--	--	1	--	--	--	--	--
472	R4-7(2M)	--	24	x	30	5.000	--	--	--	1	--	--	--	--	--
473	R5-1(2M)	--	36	x	36	9.000	--	--	--	1	--	--	--	--	--
474	R4-7(2M)	--	24	x	30	5.000	--	--	--	1	--	--	--	--	--
475	R7-1D(2M)	--	24	x	30	5.000	--	--	--	--	--	1	--	--	--
476	R5-1(2M)	--	36	x	36	9.000	--	--	--	1	--	--	--	--	--
477	R6-2L(2S)	--	24	x	30	5.000	--	--	--	1	--	--	--	--	--
478	W3-3(3)	--	36	x	36	--	9.000	--	--	1	--	--	--	--	TEMPORARY FLAGS INCIDENTAL
479	W3-3(3)	--	36	x	36	--	9.000	--	--	1	--	--	--	--	TEMPORARY FLAGS INCIDENTAL
480	NOT USED	--	--	x	--	--	--	--	--	1	--	--	--	--	--
481	NOT USED	--	--	x	--	--	--	--	--	--	--	--	--	--	--
482	W11-1(2M)	--	36	x	36	--	9.000	--	--	1	--	--	--	--	--
483	W16-9P(2M)	--	30	x	18	--	3.750	--	--	--	--	--	--	482	--

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	638.3000* REMOVING SMALL SIGN SUPPORTS [EA]	634.0618 WOOD POSTS 4"X 6"x18' [EA]	634.0622 WOOD POSTS 4"X 6"x22' [EA]	634.0814 POSTS TUBULAR STEEL 2"X2"X14' [EA]	638.2102* MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
484	W11-1(2M)	--	36	x	36	--	9.000	--	--	1	--	--	--	--	--
485	W16-9P(2M)	--	30	x	18	--	3.750	--	--	--	--	--	--	484	--
486	R7-1D(2M)	--	24	x	30	5.000	--	--	--	--	--	1	--	--	--
487	R3-20L(2M)	--	24	x	36	6.000	--	--	--	1	--	--	--	--	--
488	R7-1D(2M)	--	24	x	30	5.000	--	--	--	--	--	1	--	--	--
489	R3-20LL(2M)	--	24	x	36	6.000	--	--	--	1	--	--	--	--	--
490	R2-1(2M)	40 MPH	30	x	36	7.500	--	--	--	1	--	--	--	--	--
491	R2-1(2M)	40 MPH	30	x	36	7.500	--	--	--	1	--	--	--	--	--
492	W10-1(3)	--	36	x	36	--	7.070	--	--	1	--	--	--	--	--
493	R6-2L(2S)	--	24	x	30	5.000	--	--	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
494	NOT USED	--	--	x	--	--	--	--	--	--	--	--	--	--	--
495	NOT USED	--	--	x	--	--	--	--	--	--	--	--	--	--	--
496	NOT USED	--	--	x	--	--	--	--	--	--	--	--	--	--	--
497	R1-1F(3)	--	36	x	36	--	--	7.460	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
498	R6-3(2S)	--	30	x	24	5.000	--	--	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
499	R5-3(2S)	--	24	x	24	4.000	--	--	--	1	--	--	--	--	--
500	R4-7(2M)	--	24	x	30	5.000	--	--	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
501	R5-1(2M)	--	36	x	36	9.000	--	--	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
502	R5-1(2M)	--	36	x	36	9.000	--	--	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
503	R1-1F(3)	--	36	x	36	--	--	7.460	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
504	R1-1F(3)	--	36	x	36	--	--	7.460	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
505	R1-1F(3)	--	36	x	36	--	--	7.460	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
506	NOT USED	--	--	x	--	--	--	--	--	--	--	--	--	--	--
507	R7-1D(2M)	--	24	x	30	5.000	--	--	--	--	--	1	--	--	--
508	W10-1(3)	--	36	x	36	--	7.070	--	--	1	--	--	--	--	--
509	W10-1(3)	--	36	x	36	--	7.070	--	--	1	--	--	--	--	--
510	R3-20LL(2M)	--	24	x	36	6.000	--	--	--	1	--	--	--	--	--
511	W3-3(3)	--	36	x	36	--	9.000	--	--	1	--	--	--	--	--
512	W3-3(3)	--	36	x	36	--	9.000	--	--	1	--	--	--	--	--
513	J2-2(2M)	--	48	x	57	19.000	--	--	--	1	--	--	--	--	--
	M3-1	NORTH	24	x	12										
	M1-6	STH 57	24	x	24										
	M5-1L	--	21	x	21										
	M3-3	SOUTH	24	x	12										
	M1-6	STH 57	24	x	24										
	M5-1R	--	21	x	21										

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	638.3000* REMOVING SMALL SIGN SUPPORTS [EA]	634.0618 WOOD POSTS 4"X 6"x18' [EA]	634.0622 WOOD POSTS 4"X 6"x22' [EA]	634.0814 POSTS TUBULAR STEEL 2"X2"X14' [EA]	638.2102* MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
514	J2-2(2M)	--	48	x	57	19.000	--	--	--	1	--	--	--	--	--
	M3-1	NORTH	24	x	12										
	M1-6	STH 57	24	x	24										
	M5-1L	--	21	x	21										
	M3-3	SOUTH	24	x	12										
	M1-6	STH 57	24	x	24										
	M5-1R	--	21	x	21										
515	J1-1(2M)	--	24	x	39	6.500	--	--	--	1	--	--	--	--	--
	M2-1	--	21	x	15										
	M1-6	STH 57	24	x	24										
515A	J1-1(2M)	--	24	x	39	6.500	--	--	--	1	--	--	--	--	--
	M2-1	--	21	x	15										
	M1-6	STH 57	24	x	24										
516	R7-1D(2M)	--	24	x	30	5.000	--	--	--	--	--	1	--	--	--
517	R6-2L(2S)	--	24	x	30	5.000	--	--	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
518	R1-1F(3)	--	36	x	36	--	--	7.460	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
519	R6-3(2S)	--	30	x	24	5.000	--	--	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
520	R4-7(2M)	--	24	x	30	5.000	--	--	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
521	R5-1(2M)	--	36	x	36	9.000	--	--	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
522	R5-1(2M)	--	36	x	36	9.000	--	--	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
523	R1-1F(3)	--	36	x	36	--	--	7.460	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
524	--	OAK LEAF TRAIL	--	x	--	--	--	--	--	--	--	--	1	523	--
525	R1-1F(3)	--	36	x	36	--	--	7.460	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
526	R1-1F(3)	--	36	x	36	--	--	7.460	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
527	NOT USED	--	--	x	--	--	--	--	--	--	--	--	--	--	--
528	NOT USED	--	--	x	--	--	--	--	--	--	--	--	--	--	--
529	R2-1(2M)	40 MPH	30	x	36	7.500	--	--	--	1	--	--	--	--	--
530	R2-1(2M)	40 MPH	30	x	36	7.500	--	--	--	1	--	--	--	--	--
531	R3-20L(2M)	--	24	x	36	6.000	--	--	--	1	--	--	--	--	--
532	R6-1R(2S)	--	36	x	12	3.000	--	--	--	1	--	--	--	--	--
533	R1-1(3)	--	36	x	36	7.460	--	--	--	--	--	--	--	532	--
534	R3-53R(2S)	--	24	x	30	5.000	--	--	--	--	--	--	--	532	--
535	R6-2R(2S)	--	24	x	30	5.000	--	--	--	1	--	--	--	--	--
536	NOT USED	--	--	x	--	--	--	--	--	--	--	--	--	--	--
537	NOT USED	--	--	x	--	--	--	--	--	--	--	--	--	--	--
538	W3-3(3)	--	36	x	36	--	9.000	--	--	1	--	--	--	--	TEMPORARY FLAGS INCIDENTAL
539	W3-3(3)	--	36	x	36	--	9.000	--	--	1	--	--	--	--	TEMPORARY FLAGS INCIDENTAL
540	R7-1D(2M)	--	24	x	30	5.000	--	--	--	--	--	1	--	--	--

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	638.3000* REMOVING SMALL SIGN SUPPORTS [EA]	634.0618 WOOD POSTS 4"X 6"x18' [EA]	634.0622 WOOD POSTS 4"X 6"x22' [EA]	634.0814 POSTS TUBULAR STEEL 2"X2"X14' [EA]	638.2102* MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
541	I55-56	--	--	x	--	--	--	--	1	1	--	--	1	--	--
542	R2-1(2M)	40 MPH	30	x	36	7.500	--	--	--	1	--	--	--	--	--
543	R2-1(2M)	40 MPH	30	x	36	7.500	--	--	--	1	--	--	--	--	--
544	R3-20LL(2M)	--	24	x	36	6.000	--	--	--	1	--	--	--	--	--
545	R3-20L(2M)	--	24	x	36	6.000	--	--	--	1	--	--	--	--	--
546	J3-1(2M)	--	24	x	57	9.500	--	--	--	1	--	--	--	--	--
	M3-3	SOUTH	24	x	12										
	M1-6	STH 57	24	x	24										
	M6-1	--	21	x	21										
547	J3-1(2M)	--	24	x	57	9.500	--	--	--	1	--	--	--	--	--
	M3-1	NORTH	24	x	12										
	M1-6	STH 57	24	x	24										
	M6-1	--	21	x	21										
548	R6-1R(2S)	--	36	x	12	3.000	--	--	--	1	--	--	--	--	--
549	R1-1(3)	--	36	x	36	7.460	--	--	--	--	--	--	--	548	--
550	R3-53R(2S)	--	24	x	30	5.000	--	--	--	--	--	--	--	548	--
551	R6-2R(2S)	--	24	x	30	5.000	--	--	--	1	--	--	--	--	--
552	R5-1(2M)	--	36	x	36	9.000	--	--	--	1	--	--	--	--	--
553	J3-1(2M)	--	24	x	69	11.500	--	--	--	1	--	--	--	--	--
	MB4-1	ALTERNATE	24	x	12										
	MB3-2	EAST	24	x	12										
	M1-1	IH 94	24	x	24										
	MB6-1	--	21	x	21										
554	D1-65	N GREEN BAY RD	90	x	21	13.125	--	--	--	2	--	--	--	--	--
555	R7-1D(2M)	--	24	x	30	5.000	--	--	--	--	--	1	--	--	--
556	J4-1(2M)	--	24	x	36	6.000	--	--	--	1	--	--	--	--	--
	M3-4	WEST	24	x	12										
	M1-6	STH 100	24	x	24										
557	R6-3(2S)	--	36	x	36	9.000	--	--	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
558	R1-1F(3)	--	30	x	24	--	--	7.460	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
559	M1-94S	[57] N GREEN BAY RD	108	x	18	13.500	--	--	--	--	--	--	--	--	INSTALL ON MAST ARM
560	R4-7(2M)	--	24	x	30	5.000	--	--	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
561	R5-1(2M)	--	36	x	36	9.000	--	--	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
562	R5-1(2M)	--	36	x	36	9.000	--	--	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
563	R1-1F(3)	--	36	x	36	--	--	7.460	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
564	W11-2(2M)	--	36	x	36	--	9.000	--	--	1	--	--	--	--	--
565	W16-7L(2M)	--	30	x	18	--	3.750	--	--	--	--	--	--	564	--
566	R6-3(2S)	--	30	x	24	5.000	--	--	--	--	--	--	--	--	MOUNT ON SIGNAL POLE

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.]	x	SIGN SIZE H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	638.3000* REMOVING SMALL SIGN SUPPORTS [EA]	634.0618 WOOD POSTS 4"X 6"x18' [EA]	634.0622 WOOD POSTS 4"X 6"x22' [EA]	634.0814 POSTS TUBULAR STEEL 2"X2"X14' [EA]	638.2102* MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
567	R1-1F(3)	--	36	x	36	--	--	7.460	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
568	R6-3(2S)	--	30	x	24	5.000	--	--	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
569	R1-1F(3)	--	36	x	36	--	--	7.460	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
570	W12-1D(2S)	--	24	x	24	--	4.000	--	--	1	--	--	--	--	2 FT MOUNT HEIGHT
571	R3-8LL(2S)	--	36	x	30	7.500	--	--	--	1	--	--	--	--	--
572	M1-94S	[57] N GREEN BAY RD	108	x	18	13.500	--	--	--	--	--	--	--	--	INSTALL ON MAST ARM
573	R4-7(2M)	--	24	x	30	5.000	--	--	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
574	R6-3(2S)	--	30	x	24	5.000	--	--	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
575	R1-1F(3)	--	36	x	36	--	--	7.460	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
576	D1-65	KILDEER CT	60	x	21	8.750	--	--	--	2	--	--	--	--	--
577	J4-1(2M)	--	24	x	36	6.000	--	--	--	1	--	--	--	--	--
	M3-2	EAST	24	x	12										
	M1-6	STH 100	24	x	24										
578	R3-20L(2M)	--	24	x	36	6.000	--	--	--	1	--	--	--	--	--
579	R3-8LL(2S)	--	36	x	30	7.500	--	--	--	1	--	--	--	--	--
580	W12-1D(2S)	--	24	x	24	--	4.000	--	--	1	--	--	--	--	2 FT MOUNT HEIGHT
581	R6-3(2S)	--	30	x	24	5.000	--	--	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
582	R1-1F(3)	--	36	x	36	--	--	7.460	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
583	R6-3(2S)	--	30	x	24	5.000	--	--	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
584	R1-1F(3)	--	36	x	36	--	--	7.460	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
585	R1-1F(3)	--	36	x	36	--	--	7.460	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
586	W11-2(2M)	--	36	x	36	--	9.000	--	--	1	--	--	--	--	--
587	W16-7L(2M)	--	30	x	18	--	3.750	--	--	--	--	--	--	586	--
588	R5-1(2M)	--	36	x	36	9.000	--	--	--	--	--	--	--	--	--
589	R5-1(2M)	--	36	x	36	9.000	--	--	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
590	R3-20LL(2M)	--	24	x	36	6.000	--	--	--	1	--	--	--	--	MOUNT ON SIGNAL POLE
591	J3-1(2M)	--	24	x	69	11.500	--	--	--	1	--	--	--	--	--
	MB4-1	ALTERNATE	24	x	12										
	MB3-1	NORTH	24	x	12										
	M1-1	IH 43	24	x	24										
	MB6-1	--	21	x	21										
592	J3-1(2M)	--	24	x	57	9.500	--	--	--	1	--	--	--	--	--
	M3-1	NORTH	24	x	12										
	M1-6	STH 57	24	x	24										
	M6-1	--	21	x	21										

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	638.3000* REMOVING SMALL SIGN SUPPORTS [EA]	634.0618 WOOD POSTS 4"X 6"x18' [EA]	634.0622 WOOD POSTS 4"X 6"x22' [EA]	634.0814 POSTS TUBULAR STEEL 2"X2"X14' [EA]	638.2102* MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
593	R3-20L(2M)	--	24	x	36	6.000	--	--	--	1	--	--	--	--	--
594	J3-2(2M)	--	48	x	69	23.000	--	--	--	2	--	--	--	--	--
	M3-3	SOUTH	24	x	12										
	M1-6	STH 57	24	x	24										
	M6-1	--	21	x	21										
	MB4-1	ALTERNATE	24	x	12										
	MB3-3	SOUTH	24	x	12										
	M1-1	IH 43	24	x	24										
	MB6-1	--	21	x	21										
595	R2-1(2M)	40 MPH	30	x	36	7.500	--	--	--	1	--	--	--	--	--
596	R2-1(2M)	40 MPH	30	x	36	7.500	--	--	--	1	--	--	--	--	--
597	D1-65	N GREEN BAY RD	90	x	21	13.125	--	--	--	2	--	--	--	--	--
598	R7-1D(2M)	--	24	x	30	5.000	--	--	--	--	--	1	--	--	--
599	R5-1(2M)	--	36	x	36	9.000	--	--	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
600	R1-1F(3)	--	36	x	36	--	--	7.460	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
601	R3-20LL(2M)	--	24	x	36	6.000	--	--	--	1	--	--	--	--	--
602	J4-1(2M)	--	24	x	36	6.000	--	--	--	1	--	--	--	--	--
	MB4-1	ALTERNATE	24	X	12										
	M1-1	IH 43	24	x	24										
603	I55-56	--	--	x	--	--	--	--	1	1	--	--	1	--	--
604	R7-1D(2M)	--	24	x	30	5.000	--	--	--	--	--	1	--	--	--
605	M1-94H	W BROWN DEER RD	--	x	--	--	--	--	--	--	--	--	1	--	PERMITTED SIGN - INSTALL ON MAST ARM
606	J3-2(2M)	--	48	x	96	32.000	--	--	--	--	2	--	--	--	--
	MB4-1	ALTERNATE	24	x	12										
	MB3-1	NORTH	24	x	12										
	M1-1	IH 41	24	x	24										
	MB6-1	--	21	x	21										
	M4-1	ALTERNATE	24	x	12										
	M3-1	NORTH	24	x	12										
	M1-4	US 41	24	x	24										
	M1-4	US 45	24	x	24										
	M6-1	--	21	x	21										
607	J2-2(2M)	--	24	x	72	12.000	--	--	--	--	1	--	--	--	--
	MB4-1	ALTERNATE	24	x	12										
	MB3-3	SOUTH	24	x	12										
	M1-1	IH 43	24	x	24										
	MB4-20L	USE LEFT LANE	24	x	24										

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	638.3000* REMOVING SMALL SIGN SUPPORTS [EA]	634.0618 WOOD POSTS 4"X6"x18' [EA]	634.0622 WOOD POSTS 4"X6"x22' [EA]	634.0814 POSTS TUBULAR STEEL 2"X2"X14' [EA]	638.2102* MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
608	J2-2(2M)	--	48	x	60	20.000	--	--	--	2	--	--	--	--	--
	M3-3	SOUTH	24	x	12										
	M1-6	STH 57	24	x	24										
	M4-20L	USE LEFT LANE	24	x	24										
	M3-1	NORTH	24	x	12										
	M1-6	STH 57	24	x	24										
	M4-20R	USE RIGHT LANE	24	x	24										
609	J1-1(2M)	--	24	x	39	6.500	--	--	--	1	--	--	--	--	--
	M2-1	--	21	x	15										
	M1-6	STH 57	24	x	24										
610	J1-1(2M)	--	24	x	39	6.500	--	--	--	1	--	--	--	--	--
	M2-1	--	21	x	15										
	M1-6	STH 57	24	x	24										
611	R4-7(2M)	--	24	x	30	5.000	--	--	--	1	--	--	--	--	--
612	R7-1D(2S)	--	18	x	24	3.000	--	--	--	--	--	1	--	--	SHEET 24 OF 47
613	R9-3A(2S)	--	18	x	18	2.250	--	--	--	--	--	1	--	--	SHEET 40 OF 47
614	R9-3BL(2S)	--	18	x	12	1.500	--	--	--	--	--	--	--	613	SHEET 40 OF 47
615	R9-3A(2S)	--	18	x	18	2.250	--	--	--	--	--	1	--	--	SHEET 40 OF 47
616	R9-3BR(2S)	--	18	x	12	1.500	--	--	--	--	--	--	--	615	SHEET 40 OF 47
617	R9-3A(2S)	--	18	x	18	2.250	--	--	--	--	--	1	--	--	SHEET 40 OF 47
618	R9-3BR(2S)	--	18	x	12	1.500	--	--	--	--	--	--	--	617	SHEET 40 OF 47
619	--	NO THRU TRAFFIC IN CURB LANE	36	x	48	12.000	--	--	--	1	--	--	--	--	SHEET 4 OF 47
620	M1-94H	N DEERBROOK TR	108	x	18	13.500	--	--	--	--	--	--	--	--	SHEET 39 OF 47 - INSTALL ON MAST ARM
621	M1-94H	N DEERBROOK TR	108	x	18	13.500	--	--	--	--	--	--	--	--	SHEET 39 OF 47 - INSTALL ON MAST ARM
622	M1-94H	[100] W BROWN DEER RD	120	x	18	15.000	--	--	--	--	--	--	--	--	SHEET 39 OF 47 - INSTALL ON MAST ARM
623	M1-94H	[100] W BROWN DEER RD	120	x	18	15.000	--	--	--	--	--	--	--	--	SHEET 39 OF 47 - INSTALL ON MAST ARM
624	D1-65	N DEERBROOK TR	84	x	21	12.250	--	--	--	2	--	--	--	--	SHEET 38 OF 47
625	D1-65	N DEERBROOK TR	84	x	21	12.250	--	--	--	2	--	--	--	--	SHEET 40 OF 47
--	--	--	--	x	--	--	--	--	--	--	--	--	--	--	--
TOTALS						2169.315	465.530	313.320	4 *	232	3	28	17		

* QUANTITIES ALSO SHOWN ELSEWHERE

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

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TRAFFIC CONTROL BARRIER

ROADWAY	STAGE	LOCATION	603.8000 CONCRETE BARRIER TEMPORARY PRECAST DELIVERED LF	603.8125 CONCRETE BARRIER TEMPORARY PRECAST INSTALLED LF
STH 100	3	EB WORK AREA	583	583
STH 100	3B	EB WORK AREA	--	531
STH 100	5	WB WORK AREA	522	522
STH 100	5B	WB WORK AREA	--	432
		PROJECT TOTALS	1105	2068

CRASH CUSHION

ROADWAY	LOCATION	STAGE	OFFSET	614.0905 CRASH CUSHIONS TEMPORARY EACH	BACK WIDTH FT	OBJECT MARKING PATTERN --	CRASH TEST LEVEL --	TRAFFIC DIRECTION --	TRAFFIC LOCATION --	CRASH CUSHION SHIELDS --
STH 100	518+60	5	30' LT	1	2	OM-3R (WO5-58R)	TL-3	Unidirectional	R	Temp Barrier Wall
		PROJECT TOTALS		1						

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MOVING SIGNS

638.2102*

MOVING SIGNS TYPE II

ROADWAY	STAGE	LOCATION	OFFSET	EACH	COMMENTS
STH 100	1	479+28	73'LT	1	ARBON DR
		PROJECT TOTALS		1	

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

COVERING SIGNS

643.0920*
TRAFFIC CONTROL COVERING SIGNS TYPE II

ROADWAY	STAGE	EACH	COMMENTS
STH 57	1	2	
STH 100	3	12	SIGNS REMAIN COVERED THROUGH STAGE 5
STH 57	4A	1	
		15	

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

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REMOVING SIGNS

ROADWAY	STAGE	LOCATION	OFFSET	638.2602* REMOVING SIGNS TYPE II EACH	638.3000* REMOVING SMALL SIGN SUPPORTS EACH	COMMENTS
STH 100	1	477+20	3'LT	1	1	SPEED LIMIT 40
		478+88	4'LT	1	1	RAILROAD
		PROJECT TOTALS		2	2	

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

DETOUR TRAFFIC CONTROL

DETOUR PLAN	DURATION DAYS	643.0900* TRAFFIC CONTROL SIGNS NO.**	643.0900* TRAFFIC CONTROL SIGNS DAYS	643.0920* TRAFFIC CONTROL COVERING SIGNS TYPE II EA
SB OFF RAMP CLOSURE	14	53	742	--
STH 57/TEUTONIA AVENUE CLOSURE	266	119	31654	3
BROWN DEER TRAIL CLOSURE	266	12	3192	--
WEST DONGES BAY CLOSURE	266	27	7182	--
ALTERNATE ROUTE SIGN COVERING	--	--	--	9
PROJECT TOTALS			42770	12

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE
**FOR PROJECT INFORMATION ONLY

PORTABLE CHANGEABLE MESSAGE SIGNS

ROADWAY	STAGE	PCMS NUMBER	DURATION DAYS	643.1050 TRAFFIC CONTROL SIGNS PCMS NO.*	643.1050 TRAFFIC CONTROL SIGNS PCMS DAYS
STH 57	STAGE 1	PCMS 7	14	1	14
STH 100	STAGE 1	PCMS 8	7	1	7
STH 100	STAGE 1	PCMS 9	7	2	14
STH 100	STAGE 2	PCMS 10/PCMS 13	21	2	42
STH 57	STAGE 2	PCMS 11	7	2	14
STH 100	STAGE 2	PCMS 12	30	1	30
STH 100	STAGE 2	PCMS 14	14	1	14
DONGES BAY ROAD	STAGE 3-5	PCMS 15	7	3	21
STH 100	STAGE 3-5	PCMS 16	21	3	63
STH 100	STAGE 3/4A	PCMS 20	68	1	68
STH 100	STAGE 4B	PCMS 17	20	1	20
KILDEER CT	STAGE 4B	PCMS 18	20	1	20
STH 100	STAGE 4A/4B	PCMS 19	30	2	60
STH 100	STAGE 4B/5	PCMS 21	48	1	48
FULL CLOSURES	STAGE 3-5		3	10	30
		PROJECT TOTALS		32	465

*FOR PROJECT INFORMATION ONLY

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FIXED MESSAGE SIGNS

643.1000

LOCATION	STAGE	SIGN NUMBER	NUMBER REQUIRED	SIGN SIZE W X H FT	TRAFFIC CONTROL SIGNS FIXED MESSAGE SF	COMMENTS
STH 57	3-5	FMS 1	1	6.0 X 2.5	15	--
43RD ST/TEUTONIA AVE	3-5	FMS 2	2	6.0 X 3.0	36	--
STH 57	3-5	FMS 3	1	5.5 X 3.0	17	--
TEUTONIA AVE,43RD, STH 57	3-5	FMS 4	4	5.5 X 2.5	55	--
DONGES BAY ROAD,STH 181	3-5	FMS 5	3	6.5 X 2.5	49	--
STH 57	3-5	FMS 6	2	7.0 X 2.5	35	--
STH 57	3-5	FMS 7	3	5.5 X 3.0	50	--
STH 100/KILDEER CT	3	FMS 8	4	-- --	--	--
	4A	FMS 8	4	-- --	--	MOVE FROM PREVIOUS STAGE
	4B	FMS 8	5	2.0 X 0.8	8	MOVE FROM PREVIOUS STAGE
	5	FMS 8	4	-- --	--	MOVE FROM PREVIOUS STAGE
STH 100/KILDEER CT	3	FMS 9	1	-- --	--	--
	4B	FMS 9	2	5.0 X 2.0	20	MOVE FROM PREVIOUS STAGE
	5	FMS 9	1	-- --	--	MOVE FROM PREVIOUS STAGE
DONGES BAY ROAD	DETOUR	FMS 10	14	3.0 X 2.5	105	--
STH 100 EB	3	FMS 11	2	-- --	--	--
STH 100 WB	4B	FMS 11	4	4.0 X 4.0	64	MOVE FROM PREVIOUS STAGE
STH 100 WB	5	FMS 11	4	-- --	--	MOVE FROM PREVIOUS STAGE
STH 100 EB	3	FMS 12	2	-- --	--	--
STH 100 WB	4B	FMS 12	4	5.0 X 1.5	30	MOVE FROM PREVIOUS STAGE
STH 100 WB	5	FMS 12	4	-- --	--	MOVE FROM PREVIOUS STAGE
STH 100 EB	3	FMS 13	1	3.5 X 1.5	5	--
STH 100 WB	4B	FMS 14	2	3.5 X 1.5	11	--
STH 100 WB	5	FMS 14	2	-- --	--	MOVE FROM PREVIOUS STAGE
STH 100 EB	3	FMS 15	1	4.0 X 1.5	6	--
STH 100 WB	4B	FMS 16	2	4.0 X 1.5	12	--
STH 100 WB	5	FMS 16	2	-- --	--	MOVE FROM PREVIOUS STAGE
STH 100 EB	3	FMS 17	1	9.0 X 6.0	54	--
STH 100 WB	4B-5	FMS 17	1	-- --	--	MOVE FROM PREVIOUS STAGE
OAK LEAF TRAIL	DETOUR	FMS 18	2	2.0 X 1.0	4	--
		PROJECT TOTALS			574	

TEMPORARY PEDESTRIAN ACCOMMODATION

STAGE	644.1430 TEMPORARY PEDESTRIAN SURFACE PLATE SF	644.1601 TEMPORARY PEDESTRIAN CURB RAMP DAY	644.1810 TEMPORARY PEDESTRIAN BARRICADE LF
3	700	56	1099
4B	100	28	114
5	685	56	713
6	200	14	66
UNDISTRIBUTED	--	28	343
PROJECT TOTALS	1685	182	2335

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*FOR PROJECT INFORMATION ONLY
**ADDITIONAL QUANTITIES SHOWN ELSEWHERE
NOTE: ALL COVERED SIGNS TO BE COVERED FOR DURATION OF WORK IN AREA, ONE CYCLE ONLY

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			TRAFFIC CONTROL																		
			643.0300		643.0410		643.0420		643.0705		643.0715		643.0800		643.0900**		643.1070		643.0500	643.0600	643.4100.S
		DURATION (CALENDAR DAYS)*	TRAFFIC CONTROL DRUMS		TRAFFIC CONTROL BARRICADES TYPE II		TRAFFIC CONTROL BARRICADES TYPE III		TRAFFIC CONTROL WARNING LIGHTS TYPE A		TRAFFIC CONTROL WARNING LIGHTS TYPE C		TRAFFIC CONTROL ARROW BOARDS		TRAFFIC CONTROL SIGNS		TRAFFIC CONTROL CONES 42-INCH		TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS	TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER BASES	TRAFFIC CONTROL INTERIM LANE CLOSURE
STAGE	ROADWAY		NO.*	DAYS	NO.*	DAYS	NO.*	DAYS	NO.*	DAYS	NO.*	DAYS	NO.*	DAYS	NO.*	DAYS	NO.*	DAYS	EA	EA	EA
1	STH 57	54	42	2268	--	--	4	216	8	432	8	432	--	--	15	810	--	--	--	--	--
	STH 100	54	302	16308	--	--	42	2268	84	4536	65	3510	2	108	94	5076	156	8424	--	--	--
	WINTER SHUTDOWN STAGE 1-2 (STH 57)	95	16	1520	--	--	3	285	6	570	--	--	--	--	8	760	--	--	--	--	--
	WINTER SHUTDOWN STAGE 1-2(STH 100)	95	85	8075	--	--	--	--	--	--	--	--	--	--	38	3610	--	--	--	--	--
	STAGE 1 TOTALS			28171		--		2769		5538		3942		108		10256		8424	--	--	--
2	STH 57	30	82	2460	--	--	24	720	48	1440	15	450	1	30	27	810	--	--	--	--	--
	STH 100	30	112	3360	--	--	26	780	52	1560	--	--	--	--	50	1500	--	--	--	--	--
	STH 100 BRIDGE REMOVAL CLOSURE	30	151	4530	--	--	53	1590	106	3180	48	1440	4	120	48	1440	--	--	--	--	12
	STAGE 2 TOTALS			10350		--		3090		6180		1890		150		3750	--	--	--	--	12
3-5	RUTH PLACE	237	--	--	--	--	5	1185	10	2370	--	--	--	--	5	1185		--	--	--	--
	STAGE 3-5 TOTALS			--		--		1185		2370		--		--		1185	--	--	--	--	--
3	STH 57	100	327	32700	--	--	103	10300	206	20600	10	1000	--	--	123	12300	--	--	145	145	--
	STH 100	100	451	45100	4	400	76	7600	152	15200	198	19800	3	300	187	18700	63	6300	149	149	--
	STAGE 3 TOTALS			77800		400		17900		35800		20800		300		31000	63	6300	294	294	--
4A	STH 57	21	354	7434	--	--	106	2226	212	4452	6	126	--	--	126	2646	--	--	--	--	--
	STH 100	21	457	9597	--	--	137	2877	274	5754	119	2499	3	63	165	3465	16	336	11	11	--
	STAGE 4A TOTALS			17031		--		5103		10206		2625		63		6111	16	336	11	11	--
4B	STH 57	14	239	3346	--	--	119	1666	238	3332	--	--	--	--	115	1610	--	--	99	99	--
	STH 100	14	569	7966	--	--	87	1218	174	2436	155	2170	3	42	194	2716	61	854	106	106	--
	STAGE 4B TOTALS			11312		--		2884		5768		2170		42		4326	61	854	205	205	--
5	STH 57	135	386	52110	--	--	78	10530	156	21060	17	2295	--	--	117	15795	--	--	--	--	--
	STH 100	135	489	66015	9	1215	93	12555	186	25110	180	24300	3	405	190	25650	43	5805	273	273	--
	STAGE 5 TOTALS			118125		1215		23085		46170		26595		405		41445		5805	273	273	--
6	STH 100	219	341	74679	4	876	36	7884	72	15768	35	7665	2	438	138	30222	--	--	--	--	--
	STAGE 6 TOTALS			74679		876		7884		15768		7665		438		30222	--	--	--	--	--
	SHORT TERM CLOSURES	100	50	5000	--	--	5	500	10	1000	15	1500	1	100	6	600	--	--	--	--	100
	UNDISTRIBUTED	--	--	6849	--	100	--	1288	--	2576	--	1344	--	32	--	2578	--	434	224	76	--
	PROJECT TOTALS			349317		2591		65688		131376		68531		1638		131473		22153	1007	859	112

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PERMANENT PAVEMENT MARKING

ROADWAY	STATION	STATION	646.5020 MARKING ARROW EPOXY TYPE 1 EACH	646.5020 MARKING ARROW EPOXY TYPE 2 EACH	646.5020 MARKING ARROW EPOXY TYPE 3 EACH	646.5020 MARKING ARROW EPOXY TYPE 5 EACH	646.5120 MARKING WORD EPOXY EACH	646.5320 MARKING RAILROAD CROSSINGS EPOXY EACH
STH 57	104+00	137+50	--	18	--	4	9	--
Ruth	--	--	--	--	--	--	--	--
STH 100	--	--	--	16	--	--	8	6
N. Deerbrook	--	--	--	1	1	--	1	--
S. Deerbrook	--	--	--	1	1	--	1	--
N. Deerwood	--	--	--	1	--	--	1	--
STH 57	137+60	150+31	--	6	--	--	3	--
	150+30	151+53	--	2	2	--	1	--
	151+39	172+63	--	6	--	1	3	--
	173+46	230+60	1	2	--	--	1	--
	231+14	283+50	--	2	--	--	1	--
Donges Bay Rd.	47+00	54+00	--	2	2	--	--	--
	PROJECT TOTALS		1	57	6	5	29	6

PERMANENT PAVEMENT MARKING

ROADWAY	STATION	STATION	646.1020 MARKING LINE EPOXY 4-INCH YELLOW LF	646.1020 MARKING LINE EPOXY 4-INCH WHITE LF	646.1040 MARKING LINE GROOVED WET REF EPOXY 4-INCH WHITE LF	646.1545 MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH WHITE LF	646.3020 MARKING LINE EPOXY 8-INCH WHITE LF	646.3545 MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH WHITE LF	646.4520 MARKING LINE SAME DAY EPOXY 4-INCH YELLOW LF	646.4620 MARKING LINE SAME DAY EPOXY 8-INCH WHITE LF	646.6120 MARKING STOP LINE EPOXY 18-INCH LF	646.7120 MARKING DIAGONAL EPOXY 12-INCH LF	646.7420 MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH LF	646.7520 MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH LF	646.8120 MARKING CURB EPOXY LF	646.8220 MARKING ISLAND NOSE EPOXY EACH
STH 57	104+00	137+50	5919	4504	--	2450	--	3108	--	--	219	--	914	--	290	4
Ruth	--	--	--	--	--	--	--	--	--	--	25	--	115	--	--	--
STH 100	--	--	4091	4821	--	2205	--	3641	--	--	311	--	976	104	162	7
N. Deerbrook	--	--	51	26	--	--	--	--	--	--	23	--	94	--	--	--
S. Deerbrook	--	--	50	25	--	--	--	--	--	--	23	--	98	--	--	--
N. Deerwood	--	--	60	--	--	--	--	--	--	--	17	--	85	--	--	--
S. Deerwood	--	--	--	--	--	--	--	--	--	--	21	--	97	--	--	--
STH 57	136+80	138+47	188	--	--	--	--	--	--	--	92	--	614	--	88	2
	137+60	150+31	2090	3024	--	--	1014	--	--	--	--	--	--	--	236	2
	150+30	151+53	--	--	--	--	--	--	--	--	140	--	624	--	44	2
	151+39	172+63	2098	4696	--	--	947	--	--	--	--	--	--	--	1820	7
	172+70	173+46	678	--	--	--	--	--	--	--	29	--	--	--	--	--
	173+46	230+60	1656	1217	9841	--	--	--	11504	676	41	490	--	--	374	1
	231+14	283+50	4100	4099	5996	--	--	--	7182	1105	45	71	--	--	--	--
Donges Bay Rd.	47+00	54+00	--	--	--	--	--	--	1286	310	49	27	--	--	--	--
	PROJECT TOTALS		43393		15837	4655	1961	6749	19972	2091	1034	588	3616	104	3014	25

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

3

PAVEMENT MARKING REMOVAL

STAGE	ROADWAY	LOCATION	646.9000 MARKING REMOVAL LINE 4-INCH LF	646.9100 MARKING REMOVAL LINE 8-INCH LF	646.9300 MARKING REMOVAL SPECIAL MARKING EACH
1	STH 100		250	--	--
WINTER 1-2	RAMP C		1641	--	2
	STH 100		107	--	--
2	RAMP C		--	--	1
3	STH 57		11200	300	--
	STH 100		837	100	4
		PROJECT TOTALS	14036	400	7

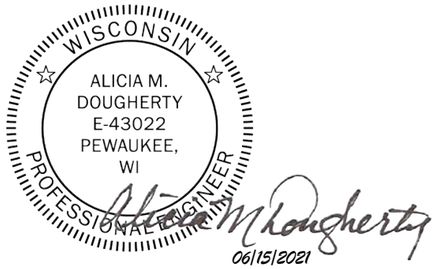
TEMPORARY RAISED PAVEMENT MARKERS

ROADWAY	STAGE	649.0760 TEMPORARY MARKING RAISED PAVEMENT MARKER TYPE I WHITE EACH	649.0760 TEMPORARY MARKING RAISED PAVEMENT MARKER TYPE I YELLOW EACH
STH 100	1	42	20
STH 100	3	90	48
STH 100	4B	41	32
STH 100	5	74	76
			423

3

TEMPORARY PAVEMENT MARKING

STAGE	ROADWAY	LOCATION	646.5005 MARKING ARROW PAINT EACH	646.5105 MARKING WORD PAINT EACH	649.0150 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH YELLOW LF	649.0150 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH WHITE LF	649.0105 TEMPORARY MARKING LINE PAINT 4-INCH YELLOW LF	649.0105 TEMPORARY MARKING LINE PAINT 4-INCH WHITE LF	649.0205 TEMPORARY MARKING LINE PAINT 8-INCH WHITE LF	649.0250 TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH WHITE LF	649.0650 TEMPORARY MARKING WORD REMOVABLE TAPE WHITE EACH	649.0850 TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH WHITE LF	649.0805 TEMPORARY MARKING STOP LINE PAINT 18-INCH WHITE LF	649.0960 TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH BLACK LF
1	STH 100		--	--	2056	1184	3295	272	853	--	--	60	--	1052
WINTER 1-2	RAMP C		1	1	--	--	1398	750	266	--	--	--	24	--
	STH 100		--	--	--	--	2035	681	--	--	--	--	--	--
2	RAMP C		1	1	--	--	--	--	--	--	--	--	--	--
3	STH 57		--	--	28348	17316	1081	11623	300	97	--	144	51	200
	STH 100		--	--	4913	6392	5846	4387	385	1355	4	100	69	265
4A	STH 100		--	--	4450	1141	848	519	--	969	--	92	--	85
4B	STH 57		--	--	12271	4969	--	--	--	--	--	75	--	--
	STH 100		--	--	6457	5968	--	--	--	2160	4	92	--	287
5	STH 57		--	--	2052	4578	--	5996	--	--	--	97	--	--
	STH 100		--	--	2456	4799	--	--	--	1040	--	132	--	230
6	STH 100		--	--	902	750	293	--	--	--	--	--	--	226
		PROJECT TOTALS	2	2	111002		39023		1804	5621	8	792	144	2343



SUMMARY OF STATE FURNISHED MATERIALS - FOR INFORMATION ONLY

QUANTITY	UNIT	DESCRIPTION
1	EACH	TRAFFIC SIGNAL CABINET WITH CONTROLLER AND BATTERY BACK-UP
2	EACH	POLES TYPE 9-SPECIAL
2	EACH	POLES TYPE 10-SPECIAL
2	EACH	MONOTUBE ARMS 40-FT-SPECIAL
2	EACH	MONOTUBE ARMS 45-FT-SPECIAL
2	EACH	LUMINAIRE ARMS STEEL 15-FT
1	LS	EVP CABINET EQUIPMENT
4	EACH	EVP DETECTOR HEADS (HEADS A, B, C, D)
1	LS	RADAR DETECTION CABINET EQUIPMENT AND CABLING
1	EACH	RADAR DETECTOR UNIT - ADVANCE (RA1)

STH 100 & N DEERBROOK TRL

ALL ITEMS ARE CATEGORY 0030 UNLESS OTHERWISE NOTED

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CONDUIT

FROM	TO	652.0225* CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	652.0235* CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH LF	652.0605 CONDUIT SPECIAL 2-INCH LF
CB1	PB1	--	42	--
PB1	PB2	18	--	--
PB2	PB3	--	--	156
PB1	PB4	--	120	--
PB4	PB5	--	112	--
PB5	PB6	170	--	--
PB6	PB7	134	--	--
PB5	PB8	--	106	--
PB8	PB9	13	--	--
PB8	PB10	--	46	--
PB10	PB11	--	104	--
PB11	PB12	51	--	--
PB11	PB13	--	154	--
PB13	PB14	21		--
PB13	PB15	--	100	--
PB15	PB16	--	132	--
PB16	PB17	167	--	--
PB16	PB18	--	106	--
PB18	PB19	--	46	--
PB19	PB20	--	104	--
PB20	PB21	42	--	--
PB21	PB22	225	--	--
PB20	PB23	--	96	--
PB23	CB1	--	30	--
PB1	SB1	7	--	--
PB4	SB2	--	9	--
PB5	SB3	33	--	--
PB8	SB4	33	--	--
PB10	SB5	10	--	--
PB10	SB6	119	--	--
SB6	SB7	152	--	--
PB11	SB8	--	32	--
PB13	SB9	11	--	--
PB15	SB10	--	7	--
PB16	SB11	32	--	--
PB18	SB12	32	--	--
PB19	SB13	20	--	--
PB19	SB14	105	--	--
SB14	SB15	131	--	--
PB23	SB16	--	19	--
	TOTALS	1526	1365	156

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

PROJECT NO: 2270-04-70	HWY: STH 100	COUNTY: MILWAUKEE	MISCELLANEOUS QUANTITIES – STH 100 & N DEERBROOK TRL	SHEET:	E

FILE NAME : I:\64008_STH_57\22700400\Design\Quantities\01_030201-mq.pdf PLOT DATE : 6/10/2021 3:09:04 PM PLOT BY : HNTB PLOT NAME : 030241_mq_sp1 PLOT SCALE : 1:1

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LOOP DETECTOR SCHEDULE

LOOP NUMBER	HOMERUN PB	STATION	LOCATION	SIZE (FT) X (FT)	NO. OF TURNS	PAVEMENT TYPE	SDD INSTALLATION REFERENCE	652.0800* CONDUIT LOOP DETECTOR LF	655.0700* LOOP DETECTOR LEAD IN CABLE LF	655.0800* LOOP DETECTOR WIRE LF
11	PB19	485+78.0	00.9' LT	6 X 20	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	74	127	234
12	PB19	486+06.0	00.9' LT	6 X 20	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	68	127	216
21	PB7	490+59.0	33.3' LT	6 X 30	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	100	451	312
22	PB6	489+29.0	43.6' LT	6 X 6	5	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	52	317	272
23	PB6	489+29.0	31.6' LT	6 X 6	5	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	76	317	392
24	PB6	489+29.0	19.6' LT	6 X 6	5	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	100	317	512
31	PB14	486+70.1	102.0' RT	6 X 20	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	88	339	276
32	PB14	486+70.1	74.0' RT	6 X 20	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	90	339	282
41	PB3	486+90.0	252.2' LT	6 X 15	3	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	60	205	192
42	PB2	486+73.4	102.0' LT	6 X 20	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	82	48	258
43	PB2	486+73.4	74.0' LT	6 X 20	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	82	48	258
51	PB9	486+83.9	00.9' RT	6 X 20	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	72	213	228
52	PB9	487+50.0	00.9' RT	6 X 20	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	72	213	228
62	PB17	484+16.0	47.1' RT	6 X 6	5	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	52	370	272
63	PB17	484+16.0	35.1' RT	6 X 6	5	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	76	370	392
64	PB17	484+16.0	23.1' RT	6 X 6	5	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	100	370	512
71	PB2	486+83.9	102.0' LT	6 X 20	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	102	48	318
72	PB2	486+83.9	74.0' LT	6 X 20	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	102	48	318
81	PB14	486+81.1	102.0' RT	6 X 20	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	66	339	210
82	PB14	486+81.1	74.0' RT	6 X 20	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	72	339	228
S1	PB21	485+34.9	47.1' LT	6 X 6	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	52	117	168
S2	PB21	485+34.9	35.1' LT	6 X 6	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	76	117	240
S3	PB21	485+34.9	23.1' LT	6 X 6	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	100	117	312
S4	PB12	488+20.0	47.1' RT	6 X 6	5	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	52	319	272
S5	PB12	488+20.0	35.1' RT	6 X 6	5	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	76	319	392
S6	PB12	488+20.0	23.1' RT	6 X 6	5	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	100	319	512
							TOTALS	2042	6253	7806

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE
** LOCATION IS TO FRONT CENTER OF DETECTOR LOOP
*** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

PULL BOXES STEEL

PULL BOX NO.	STATION	LOCATION	653.0135* PULL BOXES STEEL 24X36-INCH EACH	653.0140* PULL BOXES STEEL 24X42-INCH EACH
PB1	486+54.0	80.5' LT	--	1
PB2	486+56.0	98.0' LT	1	--
PB3	486+74.0	252.0' LT	1	--
PB4	487+13.8	80.4' LT	--	1
PB5	487+61.0	63.5' LT	--	1
PB6	489+27.0	60.5' LT	1	--
PB7	490+57.0	62.0' LT	1	--
PB8	487+60.9	11.0' LT	--	1
PB9	487+74.0	11.0' LT	1	
PB10	487+61.0	12.0' RT	--	1
PB11	487+61.0	64.0' RT	--	1
PB12	488+12.0	64.0' RT	1	--
PB13	486+92.0	80.2' RT	--	1
PB14	486+91.0	100.5' RT	1	--
PB15	486+42.0	80.0' RT	--	1
PB16	485+85.0	64.0' RT	--	1
PB17	484+18.0	64.0' RT	1	--
PB18	485+85.0	11.0' RT	--	1
PB19	485+85.0	11.9' LT	--	1
PB20	485+85.0	64.0' LT	--	1
PB21	485+43.0	64.0' LT	1	--
PB22	483+30.0	78.0' LT	1	--
PB23	486+31.0	76.0' LT	--	1
		TOTALS	10	13

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

*** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

CONCRETE BASES

BASE NO.	STATION	LOCATION	654.0101* CONCRETE BASES TYPE 1 EACH	654.0102* CONCRETE BASES TYPE 2 EACH	654.0105* CONCRETE BASES TYPE 5 EACH	654.0120* CONCRETE BASES TYPE 10-SPECIAL EACH	SPV.0060.61 CONCRETE CONTROL CABINET BASES TYPE 9 SPECIAL SUPER P EACH
CB1	486+40.0	80.7' LT	--	--	--	--	1
SB1	486+53.4	74.0' LT	1	--	--	--	--
SB2	487+21.3	74.7' LT	--	--	--	1	--
SB3	487+28.1	65.0' LT	1	--	--	--	--
SB4	487+28.0	11.0' LT	--	1	--	--	--
SB5	487+51.0	11.5' RT	1	--	--	--	--
SB6	488+80.0	10.1' RT	--	--	1	--	--
SB7	490+31.6	01.4' LT	--	--	1	--	--
SB8	490+31.6	85.6' RT	--	--	--	1	--
SB9	487+01.1	74.0' RT	1	--	--	--	--
SB10	486+37.9	74.8' RT	--	--	--	1	--
SB11	486+16.8	65.0' RT	1	--	--	--	--
SB12	486+16.8	11.0' RT	--	1	--	--	--
SB13	486+05.0	11.5' LT	1	--	--	--	--
SB14	484+80.0	12.0' LT	--	--	1	--	--
SB15	483+50.0	02.1' RT	--	--	1	--	--
SB16	486+15.6	64.5' LT	--	--	--	1	--
		TOTALS	6	2	4	4	1

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE
*** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

UNDERGROUND TRAFFIC SIGNAL CABLE NO. 14

FROM	TO	655.0240* CABLE TRAFFIC SIGNAL 7-14 AWG LF	655.0260* CABLE TRAFFIC SIGNAL 12-14 AWG LF
CB1	SB1	--	48
CB1	SB2	--	126
CB1	SB3	--	222
CB1	SB4	291	--
CB1	SB5	307	--
CB1	SB8	--	397
CB1	SB9	--	436
CB1	SB10	--	366
CB1	SB11	--	309
CB1	SB12	240	--
CB1	SB13	189	--
CB1	SB16	--	56
CB1	PB22	--	497
	TOTALS	1027	2457

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

STH 100 & N DEERBROOK TRL

ALL ITEMS ARE CATEGORY 0030 UNLESS OTHERWISE NOTED

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ABOVE GROUND TRAFFIC SIGNAL CABLE NO. 14

FROM	TO	655.0230* CABLE TRAFFIC SIGNAL 5-14 AWG LF	655.0240* CABLE TRAFFIC SIGNAL 7-14 AWG LF
SB1	HEAD 15	19	--
	HEAD 23	--	22
	HEAD 27	15	--
SB2	HEAD 21	48	--
	HEAD 22	19	--
	HEAD 24	--	59
	HEAD 28	15	--
SB3	HEAD 6	--	22
	HEAD 8	19	--
	HEAD 29	15	--
SB4	HEAD 7	--	22
SB5	HEAD 12	--	22
SB8	HEAD 2	66	--
	HEAD 3	54	--
	HEAD 4	42	--
	HEAD 30	15	--
SB9	HEAD 18	--	22
	HEAD 20	19	--
	HEAD 31	15	--
SB10	HEAD 16	45	--
	HEAD 17	19	--
	HEAD 19	--	57
	HEAD 32	15	--
SB11	HEAD 1	19	--
	HEAD 13	--	22
	HEAD 25	15	--
SB12	HEAD 14	--	22
SB13	HEAD 5	--	22
SB16	HEAD 9	68	--
	HEAD 10	57	--
	HEAD 11	46	--
	HEAD 26	15	--
	TOTAL	660	292

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

LIGHTING WIRE

FROM	TO	655.0320* CABLE TYPE UF 2-10 AWG GROUNDED LF	655.0610* ELECTRICAL WIRE LIGHTING 12 AWG LF
CB1	SB2	126	--
SB2	LUMIN (1)	--	144
SB2	SB4	207	--
SB4	LUMIN (2)	--	234
SB4	SB6	215	--
SB6	LUMIN (1)	--	117
SB6	SB7	160	--
SB7	LUMIN (1)	--	117
CB1	SB12	240	--
SB12	LUMIN (2)	--	234
SB12	SB14	200	--
SB14	LUMIN (1)	--	117
SB14	SB15	139	--
SB15	LUMIN (1)	--	117
SB12	SB10	214	--
SB10	LUMIN (1)	--	144
	TOTALS	1501	1224

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ELECTRICAL WIRE TRAFFIC SIGNALS

FROM	TO	655.0515* ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG LF
CB1	SB1	48
SB1	SB2	119
SB2	SB3	141
SB3	SB4	162
SB4	SB5	109
SB5	SB8	137
SB8	SB9	163
SB9	SB10	111
SB10	SB11	148
SB11	SB12	160
SB12	SB13	118
SB13	SB16	198
SB16	CB1	56
PB1	CB1	37
PB4	SB2	29
PB5	SB3	53
PB8	SB4	53
PB10	SB5	30
PB11	SB8	52
PB13	SB9	31
PB15	SB10	27
PB16	SB11	52
PB18	SB12	52
PB19	SB13	40
PB20	CB1	97
PB23	CB1	33
	TOTAL	2256

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

STH 100 & N DEERBROOK TRL

ALL ITEMS ARE CATEGORY 0030 UNLESS OTHERWISE NOTED

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TRAFFIC SIGNAL EVP DETECTOR CABLE

FROM	TO	655.0900* TRAFFIC SIGNAL EVP DETECTOR CABLE LF
CB1	SB2 (HEAD D)	196
CB1	SB8 (HEAD B)	472
CB1	SB10 (HEAD C)	436
CB1	SB16 (HEAD A)	131
	TOTALS	1235

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ELECTRICAL SERVICE METER BREAKER PEDESTAL STH 100 & N DEERBROOK TRL

BASE NO.	656.0200.61 ELECTRICAL SERVICE METER BREAKER PEDESTAL LS
CB1	1
TOTAL	1

***FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

STH 100 & N DEERBROOK TRL

ALL ITEMS ARE CATEGORY 0030 UNLESS OTHERWISE NOTED

CAST BASES, POLES, STANDARDS, MONOTUBE ARMS, PUSH BUTTONS, AND LUMINAIF

SIGNAL BASE NO.	SPV.0060.62* PEDESTAL BASES BLACK EACH	SPV.0060.63* TRANSFORMER BASES BREAKAWAY 11 1/2 INCH BOLT CIRCLE BLACK EACH	SPV.0060.64* POLES TYPE 3 BLACK EACH	SPV.0060.65* POLES TYPE 5 ALUMINUM BLACK EACH	SPV.0060.68* TRAFFIC SIGNAL STANDARDS ALUMINUM 15-FT BLACK EACH
SB1	1	--	--	--	1
SB2	--	--	--	--	--
SB3	1	--	--	--	1
SB4	--	1	1	--	--
SB5	1	--	--	--	1
SB6	--	1	--	1	--
SB7	--	1	--	1	--
SB8	--	--	--	--	--
SB9	1	--	--	--	1
SB10	--	--	--	--	--
SB11	1	--	--	--	1
SB12	--	1	1	--	--
SB13	1	--	--	--	1
SB14	--	1	--	1	--
SB15	--	1	--	1	--
SB16	--	--	--	--	--
TOTALS	6	6	2	4	6

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

CAST BASES, POLES, MONOTUBE ARMS, PUSH BUTTONS, AND LUMINAIRES (CONT.)

SIGNAL BASE NO.	SPV.0060.73* INSTALL POLES TYPE 9-SPECIAL EACH	SPV.0060.75* INSTALL POLES TYPE 10-SPECIAL EACH	SPV.0060.80* INSTALL MONOTUBE ARMS 40-FT SPECIAL EACH	SPV.0060.81* INSTALL MONOTUBE ARMS 45-FT SPECIAL EACH	SPV.0060.82* INSTALL LUMINAIRE ARMS STEEL 15-FT EACH	SPV.0060.70* LUMINAIRE ARMS SINGLE MEMBER 4-INCH CLAMP 6-FT BLACK EACH	SPV.0060.71* LUMINAIRE ARMS SINGLE MEMBER 4 1/2-INCH CLAMP 6-FT BLACK EACH	SPV.0060.86* PEDESTRIAN PUSH BUTTONS BLACK EACH	SPV.0060.87* LUMINAIRES UTILITY LED C BLACK EACH
SB1	--	--	--	--	--	--	--	1	--
SB2	--	1	1	--	1	--	--	1	1
SB3	--	--	--	--	--	--	--	1	--
SB4	--	--	--	--	--	2	--	1	2
SB5	--	--	--	--	--	--	--	--	--
SB6	--	--	--	--	--	--	1	--	1
SB7	--	--	--	--	--	--	1	--	1
SB8	1	--	--	1	--	--	--	1	--
SB9	--	--	--	--	--	--	--	1	--
SB10	--	1	1	--	1	--	--	1	1
SB11	--	--	--	--	--	--	--	1	--
SB12	--	--	--	--	--	2	--	1	2
SB13	--	--	--	--	--	--	--	--	--
SB14	--	--	--	--	--	--	1	--	1
SB15	--	--	--	--	--	--	1	--	1
SB16	1	--	--	1	--	--	--	1	--
TOTALS	2	2	2	2	2	4	4	10	10

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

FILE NAME : I:\64008_STH_57\22700400\Design\Quantities\01_030201-mq.pdf PLOT DATE : 6/10/2021 3:09:05 PM PLOT BY : HNTB PLOT NAME : 030241_mq_sp7 PLOT SCALE : 1:1

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TRAFFIC SIGNAL AND PEDESTRIAN FACES

SIGNAL HEAD NO.	SIGNAL BASE NO.	SPV.0060.83 TRAFFIC SIGNAL FACE 3S 12-INCH BLACK EACH	SPV.0060.84 TRAFFIC SIGNAL FACE 4S 12-INCH BLACK EACH	SPV.0060.85 PEDESTRIAN SIGNAL FACE 16-INCH BLACK EACH
1	SB11	1	--	--
2	SB8	1	--	--
3	SB8	1	--	--
4	SB8	1	--	--
5	SB13	--	1	--
6	SB3	--	1	--
7	SB4	--	1	--
8	SB3	1	--	--
9	SB16	1	--	--
10	SB16	1	--	--
11	SB16	1	--	--
12	SB5	--	1	--
13	SB11	--	1	--
14	SB12	--	1	--
15	SB1	1	--	--
16	SB10	1	--	--
17	SB10	1	--	--
18	SB9	--	1	--
19	SB10	--	1	--
20	SB9	1	--	--
21	SB2	1	--	--
22	SB2	1	--	--
23	SB1	--	1	--
24	SB2	--	1	--
25	SB11	--	--	1
26	SB16	--	--	1
27	SB1	--	--	1
28	SB2	--	--	1
29	SB3	--	--	1
30	SB8	--	--	1
31	SB9	--	--	1
32	SB10	--	--	1
	TOTALS	14	10	8

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

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SIGNAL MOUNTING HARDWARE
STH 100 & N DEERBROOK TRL

LOCATION	658.5069.61 SIGNAL MOUNTING HARDWARE LS
STH 100 & N DEERBROOK TRL	1
TOTAL	1

TRANSPORT AND INSTALL STATE FURNISHED TRAFFIC SIGNAL CABINET
STH 100 & N DEERBROOK TRL

LOCATION	SPV.0105.61 TRNSPT & INSTALL STATE FURN TRAFFIC SIGNAL CABINET LS
CB1	1
TOTAL	1

TRANSPORT AND INSTALL STATE FURNISHED EMERGENCY VEHICLE PREEMPTION (EVP) DETECTOR HEADS
STH 100 & N DEERBROOK TRL

LOCATION	SPV.0105.72 TRNSPT & INSTALL STATE FURN EVP HEADS LS
STH 100 & N DEERBROOK TRL	1
TOTAL	1

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TRANSPORT TRAFFIC SIGNAL AND INTERSECTION LIGHTING MATERIALS
STH 100 & N DEERBROOK TRL

LOCATION	SPV.0105.66 TRNSPT TRAFFIC SIGNALS & INTER LIGHTING MATERIALS LS
STH 100 & N DEERBROOK TRL	1
TOTAL	1

TRANSPORT AND INSTALL STATE FURNISHED RADAR
DETECTION SYSTEM
STH 100 & N DEERBROOK TRL

LOCATION	SPV.0105.83 TRNSPRT AND INSTALL S-F RADAR DETECTION SYSTEM LS
STH 100 & N DEERBROOK TRL	1
TOTAL	1

COVERING TRAFFIC SIGNAL EQUIPMENT
STH 100 & N DEERBROOK TRL

LOCATION	SPV.0105.88 COVERING TRAFFIC SIGNAL EQUIPMENT LS
STH 100 & N DEERBROOK TRL	1
TOTAL	1

STH 57 & STH 100

ALL ITEMS ARE CATEGORY 0030 UNLESS OTHERWISE NOTED

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SUMMARY OF STATE FURNISHED MATERIALS - FOR INFORMATION ONLY

QUANTITY	UNIT	DESCRIPTION
1	EACH	TRAFFIC SIGNAL CABINET WITH CONTROLLER
4	EACH	POLES TYPE 9-SPECIAL
4	EACH	POLES TYPE 10
4	EACH	MONOTUBE ARMS 30-FT
4	EACH	MONOTUBE ARMS 45-FT-SPECIAL
8	EACH	LUMINAIRE ARMS STEEL 15-FT
1	LS	EVP CABINET EQUIPMENT
4	EACH	EVP DETECTOR HEADS (HEADS A, B, C, D)
2	EACH	CAMERA ASSEMBLY (FOR TEMPORARY TRAFFIC SIGNALS)

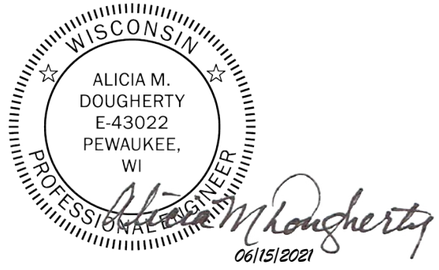
REMOVING CONCRETE BASES

EXISTING BASE NO.	204.0195* REMOVING CONCRETE BASES EACH
CB1	1
SB1	1
SB2	1
SB3	1
SB4	1
SB5	1
SB6	1
SB7	1
SB9	1
SB11	1
SB12	1
SB13	1
SB14	1
SB15	1
SB16	1
SB17	1
SB18	1
SB19	1
SB21	1
TOTAL	19

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

TRAFFIC SIGNAL REMOVALS
STH 57 & STH 100

LOCATION	204.9105.S.61 REMOVE TRAFFIC SIGNALS LS	204.9105.S.66 REMOVE LOOP DETECTOR WIRE AND LEAD-IN CABLE LS
STH 57 & STH 100	1	1
TOTAL	1	1



PROJECT NO: 2270-04-70	HWY: STH 57/100	COUNTY: MILWAUKEE	MISCELLANEOUS QUANTITIES – STH 57 & STH 100	SHEET: E

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CONDUIT

FROM	TO	652.0225* CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	652.0235* CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH LF
CB1	PB1	--	54
PB1	PB2	--	108
PB2	PB3	158	--
PB3	PB4	125	--
PB2	PB5	--	35
PB2	PB6	--	162
PB6	PB7	--	18
PB6	PB8	10	--
PB6	PB9	--	72
PB9	PB10	--	112
PB10	PB11	59	--
PB10	PB12	--	136
PB12	PB13	152	--
PB13	PB14	131	--
PB12	PB15	--	41
PB12	PB16	--	160
PB16	PB17	--	37
PB16	PB18	10	--
PB16	PB19	--	72
PB19	PB20	--	116
PB20	PB21	52	--
PB20	PB22	--	112
PB22	PB23	160	--
PB23	PB24	130	--
PB22	PB25	--	32
PB22	PB26	--	158
PB26	PB27	--	17
PB26	PB28	9	--
PB26	PB29	--	70
PB29	PB30	--	120
PB30	PB31	70	--
PB30	PB32	--	190
PB32	PB33	119	--
PB33	PB34	130	--
PB32	PB35	--	77
PB32	PB36	--	152
PB36	PB38	--	23
PB38	PB37	--	47
PB36	PB39	--	72
PB39	PB40	32	--
PB39	PB41	--	128
PB41	PB42	22	--
PB41	CB1	--	45
	SUBTOTALS	1369	2366

FROM	TO	652.0225* CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	652.0235* CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH LF
PB1	SB1	30	--
PB5	SB2	--	30
PB5	SB3	19	--
PB7	SB4	--	25
PB9	SB5	11	--
PB9	SB6	19	--
PB9	SB7	105	--
SB7	SB8	152	--
SB8	SB9	152	--
SB9	SB10	152	--
PB12	SB11	32	--
PB15	SB12	--	27
PB15	SB13	17	--
PB17	SB14	--	11
PB19	SB15	12	--
PB19	SB16	29	--
PB22	SB17	22	--
PB25	SB18	--	30
PB25	SB19	20	--
PB27	SB20	--	24
PB29	SB21	12	--
PB29	SB22	19	--
PB29	SB23	109	--
SB23	SB24	150	--
SB24	SB25	151	--
PB30	SB26	29	--
PB35	SB27	--	17
PB35	SB28	9	--
PB37	SB29	--	10
PB40	SB30	12	--
PB40	SB31	23	--
PB39	SB32	70	--
SB32	SB33	151	--
SB33	SB34	151	--
	SUBTOTALS	1658	174
	TOTALS	3027	2540

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

LOOP DETECTOR SCHEDULE

LOOP NUMBER	HOMERUN PB	STATION	LOCATION	SIZE (FT) X (FT)	NO. OF TURNS	PAVEMENT TYPE	SDD INSTALLATION REFERENCE	652.0800* CONDUIT LOOP DETECTOR LF	655.0700* LOOP DETECTOR LEAD IN CABLE LF	655.0800* LOOP DETECTOR WIRE LF
11	PB38	496+89.5	1.9' LT	6 X 20	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	72	155	228
12	PB38	497+17.5	1.9' LT	6 X 20	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	72	155	228
13	PB38	496+89.5	13.9' LT	6 X 20	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	94	155	294
14	PB38	497+17.5	13.9' LT	6 X 20	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	94	155	294
21	PB14	502+40.0	46.5' LT	6 X 30	4	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	120	613	492
22	PB13	501+19.0	61.1' LT	6 X 10	5	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	80	482	412
23	PB13	501+19.0	49.6' LT	6 X 10	5	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	104	482	532
24	PB13	501+19.0	38.1' LT	6 X 10	5	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	126	482	642
31	PB28	498+40.1	127.0' RT	6 X 20	4	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	72	407	300
32	PB28	498+39.6	98.9' RT	6 X 20	4	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	72	407	300
33	PB28	498+28.1	127.1' RT	6 X 20	4	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	94	407	388
34	PB28	498+27.6	99.1' RT	6 X 20	4	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	94	407	388
41	PB4	125+00.0	32.0' LT	6 X 30	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	108	372	336
42	PB3	123+70.0	44.1' LT	6 X 6	4	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	76	247	316
43	PB3	123+70.0	32.1' LT	6 X 6	4	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	100	247	412
44	PB3	123+70.0	20.1' LT	6 X 6	4	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	124	247	508
45	PB5	497+72.4	117.0' LT	6 X 20	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	86	124	270
46	PB5	497+73.4	89.0' LT	6 X 20	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	84	124	264
47	PB7	497+84.9	117.0' LT	6 X 20	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	94	188	294
48	PB7	497+85.4	89.0' LT	6 X 20	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	94	188	294
49	PB7	497+96.9	117.0' LT	6 X 20	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	72	188	228
410	PB7	497+97.4	89.0' LT	6 X 20	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	72	188	228
51	PB18	499+69.5	14.1' LT	6 X 20	4	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	70	420	292
52	PB18	499+41.5	14.1' LT	6 X 20	4	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	72	420	300
53	PB18	499+69.5	2.1' LT	6 X 20	4	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	94	420	388
54	PB18	499+41.5	2.0' LT	6 X 20	4	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	96	420	396
							SUBT0TALS	2336	8100	9024

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE
** LOCATION IS TO FRONT CENTER OF DETECTOR LOOP
*** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

LOOP DETECTOR SCHEDULE (CONT.)

LOOP NUMBER	HOMERUN PB	STATION	LOCATION	SIZE (FT) X (FT)	NO. OF TURNS	PAVEMENT TYPE	SDD INSTALLATION REFERENCE	652.0800* CONDUIT LOOP DETECTOR LF	655.0700* LOOP DETECTOR LEAD IN CABLE LF	655.0800* LOOP DETECTOR WIRE LF
61	PB34	494+20.0	34.0' RT	6 X 30	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	124	457	384
62	PB33	495+50.0	46.1' RT	6 X 6	5	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	76	327	392
63	PB33	495+50.0	34.1' RT	6 X 6	5	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	100	327	512
64	PB33	495+50.0	22.1' RT	6 X 6	5	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	124	327	632
71	PB8	498+19.6	146.3' LT	6 X 20	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	72	180	228
72	PB8	498+20.6	118.3' LT	6 X 20	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	72	180	228
73	PB8	498+31.6	146.7' LT	6 X 20	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	94	180	294
74	PB8	498+32.6	121.6' LT	6 X 20	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	94	180	294
81	PB24	116+75.0	44.5' RT	6 X 30	4	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	122	767	500
82	PB23	118+05.0	37.6' RT	6 X 15	5	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	96	637	492
83	PB23	118+05.0	49.6' RT	6 X 15	5	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	118	637	602
84	PB23	118+05.0	61.1' RT	6 X 15	5	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	142	637	722
85	PB25	498+87.6	101.0' RT	6 X 20	4	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	86	509	356
86	PB25	498+87.1	73.0' RT	6 X 20	4	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	82	509	340
87	PB27	498+75.6	101.0' RT	6 X 20	4	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	96	415	396
88	PB27	498+75.1	73.0' RT	6 X 20	4	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	94	415	388
89	PB27	498+63.6	101.0' RT	6 X 20	4	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	72	415	300
810	PB27	498+63.1	73.0' RT	6 X 20	4	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	72	415	300
S1	PB42	496+50.0	62.1' LT	6 X 6	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	72	54	228
S2	PB42	496+50.0	50.1' LT	6 X 6	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	96	54	300
S3	PB42	496+50.0	38.1' LT	6 X 6	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	120	54	372
S4	PB31	119+02.0	44.1' LT	6 X 6	5	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	56	372	292
S5	PB31	119+02.0	32.1' LT	6 X 6	5	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	78	372	402
S6	PB31	119+02.0	20.1' LT	6 X 6	5	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	102	372	522
S7	PB21	500+10.0	46.1' LT	6 X 10	5	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	64	566	332
S8	PB21	500+10.0	34.1' LT	6 X 10	5	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	86	566	442
S9	PB21	500+10.0	22.1' LT	6 X 10	5	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	110	566	562
S10	PB11	122+65.0	64.1' RT	6 X 6	5	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	52	321	272
S11	PB11	122+65.0	52.1' RT	6 X 6	5	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	76	321	392
S12	PB11	122+65.0	40.1' RT	6 X 6	5	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	100	321	512
							SUBTOTALS	2748	11453	11988
							TOTALS	5084	19553	21012

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE
** LOCATION IS TO FRONT CENTER OF DETECTOR LOOP
*** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

3

PULL BOXES STEEL

PULL BOX NO.	STATION	LOCATION	653.0135* PULL BOXES STEEL 24X36-INCH EACH	653.0140* PULL BOXES STEEL 24X42-INCH EACH
PB1	497+02.0	84.0' LT	--	1
PB2	497+27.3	128.6' LT	--	1
PB3	123+68.0	73.0' LT	1	--
PB4	124+98.0	65.0' LT	1	--
PB5	497+55.5	107.5' LT	--	1
PB6	498+08.2	131.4' LT	--	1
PB7	498+08.8	113.4' LT	1	--
PB8	498+07.8	141.9' LT	1	--
PB9	498+44.2	132.7' LT	--	1
PB10	499+00.7	134.6' LT	--	1
PB11	122+68.8	81.0' RT	1	--
PB12	499+57.0	106.0' LT	--	1
PB13	501+08.0	88.3' LT	1	--
PB14	502+38.0	85.5' LT	1	--
PB15	499+25.0	80.0' LT	--	1
PB16	499+57.0	26.0' LT	--	1
PB17	499+20.0	26.0' LT	1	--
PB18	499+67.0	26.0' LT	1	--
PB19	499+57.0	9.5' RT	--	1
PB20	499+57.0	67.5' RT	--	1
PB21	500+18.0	63.0' RT	1	--
PB22	499+30.8	112.5' RT	--	1
PB23	118+07.0	91.0' RT	1	--
PB24	116+77.0	84.0' RT	1	--
PB25	499+05.4	92.6' RT	--	1
PB26	498+51.8	113.7' RT	--	1
PB27	498+51.5	96.7' RT	1	--
PB28	498+51.9	122.8' RT	1	--
PB29	498+16.3	114.3' RT	--	1
PB30	497+56.8	115.3' RT	--	1
PB31	118+94.9	61.0' LT	1	--
PB32	496+70.0	86.5' RT	--	1
PB33	495+52.0	75.5' RT	1	--
PB34	494+22.0	75.0' RT	1	--
PB35	497+45.0	70.8' RT	--	1
PB36	496+70.0	10.0' RT	--	1
PB37	497+40.0	10.0' RT	1	--
PB38	496+93.5	10.0' RT	1	--
PB39	496+70.0	26.0' LT	--	1
PB40	497+02.0	26.0' LT	1	--
PB41	496+70.0	90.0' LT	--	1
PB42	496+48.0	88.7' LT	1	--
		TOTALS	21	21

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

*** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

REMOVING PULL BOXES

EXISTING PULL BOX NO.	653.0905* REMOVING PULL BOXES EACH
PB1	1
PB2 PB-GB2	1
PB3	1
PB4	1
PB5	1
PB6	1
PB7	1
PB8	1
PB9	1
PB11	1
PB12	1
PB13	1
PB14	1
PB16	1
PB18	1
PB20	1
PB21	1
PB22	1
PB23	1
PB24	1
PB28	1
PB29	1
PB30	1
PB31	1
PB34	1
PB36	1
PB37	1
TOTAL	27

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

CONCRETE BASES

BASE NO.	STATION	LOCATION	654.0101* CONCRETE BASES TYPE 1 EACH	654.0102* CONCRETE BASES TYPE 2 EACH	654.0105* CONCRETE BASES TYPE 5 EACH	654.0110* CONCRETE BASES TYPE 10 EACH	654.0120* CONCRETE BASES TYPE 10-SPECIAL EACH	654.0217* CONCRETE CONTROL CABINET BASES TYPE 9 SPECIAL EACH
CB1	496+85.0	91.2' LT	--	--	--	--	--	1
SB1	497+22.1	105.9' LT	--	1	--	--	--	--
SB2	497+46.0	79.0' LT	--	--	--	--	1	--
SB3	497+756.0	89.0' LT	1	--	--	--	--	--
SB4	498+10.0	89.0' LT	--	--	--	1	--	--
SB5	498+53.6	121.6' LT	1	--	--	--	--	--
SB6	122+29.4	28.1' RT	1	--	--	--	--	--
SB7	123+15.0	27.9' RT	--	--	1	--	--	--
SB8	124+65.1	23.5' RT	--	--	1	--	--	--
SB9	126+15.0	16.9' RT	--	--	1	--	--	--
SB10	127+65.0	0.7' LT	--	--	1	--	--	--
SB11	499+25.0	111.5' LT	--	1	--	--	--	--
SB12	498+99.0	87.0' LT	--	--	--	--	1	--
SB13	499+08.5	79.0' LT	1	--	--	--	--	--
SB14	499+09.5	26.0' LT	--	--	--	1	--	--
SB15	499+45.0	9.0' RT	1	--	--	--	--	--
SB16	499+84.5	10.9' RT	1	--	--	--	--	--
SB17	499+35.4	90.5' RT	--	1	--	--	--	--
SB18	499+12.0	63.0 RT	--	--	--	--	1	--
SB19	499+05.0	72.8' RT	1	--	--	--	--	--
SB20	498+51.0	73.0' RT	--	--	--	1	--	--
SB21	498+17.1	102.3' RT	1	--	--	--	--	--
SB22	119+45.0	07.8' LT	1	--	--	--	--	--
SB23	118+55.0	8.0' LT	--	--	1	--	--	--
SB24	117+05.0	6.1' LT	--	--	1	--	--	--
SB25	115+55.0	6.7' RT	--	--	1	--	--	--
SB26	497+35.0	97.5' RT	--	1	--	--	--	--
SB27	497+61.5	73.7' RT	--	--	--	--	1	--
SB28	497+51.5	64.0' RT	1	--	--	--	--	--
SB29	497+49.5	10.0' RT	--	--	--	1	--	--
SB30	497+14.0	25.0' LT	1	--	--	--	--	--
SB31	496+78.9	26.0' LT	1	--	--	--	--	--
SB32	496+00.0	25.9' LT	--	--	1	--	--	--
SB33	494+50.0	14.9' LT	--	--	1	--	--	--
SB34	493+00.0	3.8' RT	--	--	1	--	--	--
		TOTALS	12	4	10	4	4	1

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

*** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

3

ABOVE GROUND TRAFFIC SIGNAL CABLE NO. 14

FROM	TO	655.0230* CABLE TRAFFIC SIGNAL 5-14 AWG LF
SB1	HEAD 28	19
SB2	HEAD 12	66
	HEAD 13	54
	HEAD 14	42
	HEAD 42	15
SB3	HEAD 21	19
	HEAD 43	15
SB4	HEAD 36	37
	HEAD 37	49
SB5	HEAD 19	19
	HEAD 25	19
SB6	HEAD 20	19
SB11	HEAD 18	19
SB12	HEAD 32	66
	HEAD 33	54
	HEAD 34	42
	HEAD 44	15
SB13	HEAD 11	19
	HEAD 45	15
SB14	HEAD 6	36
	HEAD 7	48
SB15	HEAD 15	19
	HEAD 39	19
SB16	HEAD 40	19
SB17	HEAD 38	19
SB18	HEAD 2	66
	HEAD 3	54
	HEAD 4	42
	HEAD 46	15
SB 19	HEAD 31	19
	HEAD 47	15
SB20	HEAD 26	36
	HEAD 27	48
SB 21	HEAD 9	19
	HEAD 35	19
SB22	HEAD 10	19
SB26	HEAD 8	19
SB27	HEAD 22	66
	HEAD 23	54
	HEAD 24	42
	HEAD 48	15
SB28	HEAD 1	19
	HEAD 41	15
SB29	HEAD 16	37
	HEAD 17	48
SB30	HEAD 5	19
	HEAD 29	19
SB31	HEAD 30	19
	TOTAL	1487

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

UNDERGROUND TRAFFIC SIGNAL CABLE NO. 14

FROM	TO	655.0240* CABLE TRAFFIC SIGNAL 7-14 AWG LF	655.0260* CABLE TRAFFIC SIGNAL 12-14 AWG LF
CB1	SB1	75	--
CB1	SB2	--	196
CB1	SB3	--	185
CB1	SB4	271	--
CB1	SB5	--	275
CB1	SB6	283	--
CB1	SB11	452	--
CB1	SB12	--	504
CB1	SB13	--	494
CB1	SB14	580	--
CB1	SB15	--	580
CB1	SB16	597	--
CB1	SB17	621	--
CB1	SB18	--	621
CB1	SB19	--	667
CB1	SB20	--	561
CB1	SB21	--	465
CB1	SB22	472	--
CB1	SB26	406	--
CB1	SB27	--	368
CB1	SB28	--	376
CB1	SB29	286	--
CB1	SB30	--	182
CB1	SB31	193	--
	TOTALS	4236	5474

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

LIGHTING WIRE

FROM	TO	655.0320* CABLE TYPE UF 2-10 AWG GROUNDED LF	655.0610* ELECTRICAL WIRE LIGHTING 12 AWG LF
CB1	SB1	75	--
SB1	LUMIN (1)	--	117
SB1	SB4	280	--
SB4	LUMIN (2)	--	288
SB4	SB7	240	--
SB7	LUMIN (1)	--	117
SB7	SB8	160	--
SB8	LUMIN (1)	--	117
SB8	SB9	160	--
SB9	LUMIN (1)	--	117
SB9	SB10	160	--
SB10	LUMIN (1)	--	117
SB4	SB11	323	--
SB11	LUMIN (1)	--	117
SB11	SB14	216	--
SB14	LUMIN (2)	--	288
SB14	SB17	308	--
SB17	LUMIN (1)	--	117
CB1	SB32	192	--
SB32	LUMIN (1)	--	117
SB32	SB33	159	--
SB33	LUMIN (1)	--	117
SB33	SB34	159	--
SB34	LUMIN (1)	--	117
SB32	SB29	258	--
SB29	LUMIN (2)	--	288
SB29	SB26	368	--
SB26	LUMIN (1)	--	117
SB26	SB20	237	--
SB20	LUMIN (2)	--	288
SB20	SB23	241	--
SB23	LUMIN (1)	--	117
SB23	SB24	158	--
SB24	LUMIN (1)	--	117
SB24	SB25	159	--
SB25	LUMIN (1)	--	117
	TOTALS	3853	2790

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ELECTRICAL WIRE TRAFFIC SIGNALS

FROM	TO	655.0515* ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG LF
CB1	SB1	75
SB1	SB2	205
SB2	SB3	73
SB3	SB4	250
SB4	SB5	146
SB5	SB6	54
SB6	SB11	231
SB11	SB12	140
SB12	SB13	68
SB13	SB14	258
SB14	SB15	152
SB15	SB16	65
SB16	SB17	221
SB17	SB18	124
SB18	SB19	74
SB19	SB20	244
SB20	SB21	144
SB21	SB22	55
SB22	SB26	148
SB26	SB27	274
SB27	SB28	50
SB28	SB29	330
SB29	SB30	248
SB30	SB31	59
SB31	CB1	193
PB1	CB1	41
PB2	CB1	111
PB5	SB2	50
PB6	SB4	79
PB7	SB4	45
PB9	SB5	31
PB10	SB11	136
PB12	SB11	52
PB15	SB12	47
PB16	SB14	84
PB17	SB14	31
PB19	SB15	32
PB20	SB17	114
PB22	SB17	42
PB25	SB18	50
PB26	SB20	77
PB27	SB20	44
PB29	SB21	32
PB30	SB26	49
PB32	SB26	160
PB35	SB27	37
PB36	SB29	132
PB37	SB29	30
PB38	SB29	93
PB39	SB30	80
PB40	SB30	32
PB41	CB1	38
	TOTAL	5630

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

STH 57 & STH 100

ALL ITEMS ARE CATEGORY 0030 UNLESS OTHERWISE NOTED

3

TRAFFIC SIGNAL EVP DETECTOR CABLE

FROM	TO	655.0900* TRAFFIC SIGNAL EVP DETECTOR CABLE LF
CB1	SB2 (HEAD A)	271
CB1	SB12 (HEAD D)	579
CB1	SB18 (HEAD B)	752
CB1	SB27 (HEAD C)	443
	TOTALS	2045

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ELECTRICAL SERVICE METER BREAKER PEDESTAL STH 57 & STH 100

BASE NO.	656.0200.62 ELECTRICAL SERVICE METER BREAKER PEDESTAL LS
CB1	1
TOTAL	1

***FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

PROJECT NO: 2270-04-70	HWY: STH 57/100	COUNTY: MILWAUKEE	MISCELLANEOUS QUANTITIES – STH 57 & STH 100	SHEET:	E

FILE NAME : I:\64008_STH_57\22700400\Design\Quantities\02_030201-mq.pdf PLOT DATE : 6/10/2021 2:34:20 PM PLOT BY : HNTB PLOT NAME : 030241_mq_sp8 PLOT SCALE : 1:1

3

CAST BASES, POLES, STANDARDS, MONOTUBE ARMS, PUSH BUTTONS, AND LUMINAIRE

SIGNAL BASE NO.	SPV.0060.62* PEDESTAL BASES BLACK EACH	SPV.0060.63* TRANSFORMER BASES BREAKAWAY 11 1/2 INCH BOLT CIRCLE BLACK EACH	SPV.0060.64* POLES TYPE 3 BLACK EACH	SPV.0060.65* POLES TYPE 5 ALUMINUM BLACK EACH	SPV.0060.67* TRAFFIC SIGNAL STANDARDS ALUMINUM 13-FT BLACK EACH
SB1	--	1	1	--	--
SB2	--	--	--	--	--
SB3	1	--	--	--	1
SB4	--	--	--	--	--
SB5	1	--	--	--	1
SB6	1	--	--	--	1
SB7	--	1	--	1	--
SB8	--	1	--	1	--
SB9	--	1	--	1	--
SB10	--	1	--	1	--
SB11	--	1	1	--	--
SB12	--	--	--	--	--
SB13	1	--	--	--	1
SB14	--	--	--	--	--
SB15	1	--	--	--	1
SB16	1	--	--	--	1
SB17	--	1	1	--	--
SB18	--	--	--	--	--
SB19	1	--	--	--	1
SB20	--	--	--	--	--
SB21	1	--	--	--	1
SB22	1	--	--	--	1
SB23	--	1	--	1	--
SB24	--	1	--	1	--
SB25	--	1	--	1	--
SB26	--	1	1	--	--
SB27	--	--	--	--	--
SB28	1	--	--	--	1
SB29	--	--	--	--	--
SB30	1	--	--	--	1
SB31	1	--	--	--	1
SB32	--	1	--	1	--
SB33	--	1	--	1	--
SB34	--	1	--	1	--
TOTALS	12	14	4	10	12

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

3

CAST BASES, POLES, MONOTUBE ARMS, PUSH BUTTONS, AND LUMINAIRES (CONT.)

SIGNAL BASE NO.	SPV.0060.73* INSTALL POLES TYPE 9-SPECIAL EACH	SPV.0060.74* INSTALL POLES TYPE 10 EACH	SPV.0060.78* INSTALL MONOTUBE ARMS 30-FT EACH	SPV.0060.81* INSTALL MONOTUBE ARMS 45-FT SPECIAL EACH	SPV.0060.82* INSTALL LUMINAIRE ARMS STEEL 15-FT EACH	SPV.0060.70* LUMINAIRE ARMS SINGLE MEMBER 4-INCH CLAMP 6-FT BLACK EACH	SPV.0060.71* LUMINAIRE ARMS SINGLE MEMBER 4 1/2-INCH CLAMP 6-FT BLACK EACH	SPV.0060.86* PEDESTRIAN PUSH BUTTONS BLACK EACH	SPV.0060.87* LUMINAIRES UTILITY LED C BLACK EACH
SB1	--	--	--	--	--	1	--	--	1
SB2	1	--	--	1	--	--	--	1	--
SB3	--	--	--	--	--	--	--	1	--
SB4	--	1	1	--	2	--	--	1	2
SB5	--	--	--	--	--	--	--	--	--
SB6	--	--	--	--	--	--	--	--	--
SB7	--	--	--	--	--	--	1	--	1
SB8	--	--	--	--	--	--	1	--	1
SB9	--	--	--	--	--	--	1	--	1
SB10	--	--	--	--	--	--	1	--	1
SB11	--	--	--	--	--	1	--	--	1
SB12	1	--	--	1	--	--	--	1	--
SB13	--	--	--	--	--	--	--	1	--
SB14	--	1	1	--	2	--	--	1	2
SB15	--	--	--	--	--	--	--	--	--
SB16	--	--	--	--	--	--	--	--	--
SB17	--	--	--	--	--	1	--	--	1
SB18	1	--	--	1	--	--	--	1	--
SB19	--	--	--	--	--	--	--	1	--
SB20	--	1	1	--	2	--	--	1	2
SB21	--	--	--	--	--	--	--	--	--
SB22	--	--	--	--	--	--	--	--	--
SB23	--	--	--	--	--	--	1	--	1
SB24	--	--	--	--	--	--	1	--	1
SB25	--	--	--	--	--	--	1	--	1
SB26	--	--	--	--	--	1	--	--	1
SB27	1	--	--	1	--	--	--	1	--
SB28	--	--	--	--	--	--	--	1	--
SB29	--	1	1	--	2	--	--	1	2
SB30	--	--	--	--	--	--	--	--	--
SB31	--	--	--	--	--	--	--	--	--
SB32	--	--	--	--	--	--	1	--	1
SB33	--	--	--	--	--	--	1	--	1
SB34	--	--	--	--	--	--	1	--	1
TOTALS	4	4	4	4	8	4	10	12	22

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

TRAFFIC SIGNAL AND PEDESTRIAN FACES

SIGNAL HEAD NO.	SIGNAL BASE NO.	SPV.0060.83* TRAFFIC SIGNAL FACE 3S 12-INCH BLACK EACH	SPV.0060.85* PEDESTRIAN SIGNAL FACE 16-INCH BLACK EACH
1	SB28	1	--
2	SB18	1	--
3	SB18	1	--
4	SB18	1	--
5	SB30	1	--
6	SB14	1	--
7	SB14	1	--
8	SB26	1	--
9	SB21	1	--
10	SB22	1	--
11	SB13	1	--
12	SB2	1	--
13	SB2	1	--
14	SB2	1	--
15	SB15	1	--
16	SB29	1	--
17	SB29	1	--
18	SB11	1	--
19	SB5	1	--
20	SB6	1	--
21	SB3	1	--
22	SB27	1	--
23	SB27	1	--
24	SB27	1	--
25	SB5	1	--
26	SB20	1	--
27	SB20	1	--
28	SB1	1	--
29	SB30	1	--
30	SB31	1	--
31	SB19	1	--
32	SB12	1	--
33	SB12	1	--
34	SB12	1	--
35	SB21	1	--
36	SB4	1	--
37	SB4	1	--
38	SB17	1	--
39	SB15	1	--
40	SB16	1	--
41	SB28	--	1
42	SB2	--	1
43	SB3	--	1
44	SB12	--	1
45	SB13	--	1
46	SB18	--	1
47	SB19	--	1
48	SB27	--	1
	TOTALS	40	8

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

SIGNAL MOUNTING HARDWARE
STH 57 & STH 100

LOCATION	658.5069.62 SIGNAL MOUNTING HARDWARE LS
STH 57 & STH 100	1
TOTAL	1

TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS
STH 57 & STH 100

LOCATION	661.0200.62 TEMPORARY TRAFFIS SIGNALS FOR INTERSECTIONS LS	661.0300* GENERATORS DAY	677.0200* INSTALL CAMERA ASSEMBLY EACH
STH 57 & STH 100	1	1	1
TOTAL	1	1	1

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

STH 57 & STH 100

ALL ITEMS ARE CATEGORY 0030 UNLESS OTHERWISE NOTED

TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS
STH 57 SB RAMPS & STH 100

LOCATION	661.0200.61 TEMPORARY TRAFFIS SIGNALS FOR INTERSECTIONS LS	661.0300* GENERATORS DAY	677.0200* INSTALL CAMERA ASSEMBLY EACH
STH 57 SB RAMPS & STH 100	1	1	1
TOTAL	1	1	1

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

TRANSPORT AND INSTALL STATE FURNISHED TRAFFIC SIGNAL CABINET
STH 57 & STH 100

LOCATION	SPV.0105.62 TRNSPT & INSTALL STATE FURN TRAFFIC SIGNAL CABINET LS
STH 57 & STH 100	1
TOTAL	1

3

TRANSPORT AND INSTALL STATE FURNISHED EMERGENCY VEHICLE PREEMPTION (EVP) DETECTOR HEADS
STH 57 & STH 100

LOCATION	SPV.0105.73 TRNSPT & INSTALL STATE FURN EVP HEADS LS
STH 57 & STH 100	1
TOTAL	1

TRANSPORT TRAFFIC SIGNAL AND INTERSECTION LIGHTING MATERIALS
STH 57 & STH 100

LOCATION	SPV.0105.67 TRNSPT TRAFFIC SIGNALS & INTER LIGHTING MATERIALS LS
STH 57 & STH 100	1
TOTAL	1

TEMPORARY EMERGENCY VEHICLE PREEMPTION (EVP)
STH 57 SB RAMPS & STH 100

LOCATION	SPV.0105.84 TEMPORARY EVP SYSTEM LS
STH 57 SB RAMPS & STH 100	1
TOTAL	1

TEMPORARY EMERGENCY VEHICLE PREEMPTION (EVP)
STH 57 & STH 100

LOCATION	SPV.0105.85 TEMPORARY EVP SYSTEM LS
STH 57 & STH 100	1
TOTAL	1

STH 100 & N KILDEER CT

ALL ITEMS ARE CATEGORY 0030 UNLESS OTHERWISE NOTED

3

SUMMARY OF STATE FURNISHED MATERIALS - FOR INFORMATION ONLY

QUANTITY	UNIT	DESCRIPTION
1	EACH	POLES TYPE 9
1	EACH	POLES TYPE 9 (2009 Design)
1	EACH	MONOTUBE ARMS 25-FT
1	EACH	MONOTUBE ARMS 25-FT (2009 Design)
2	EACH	POLES TYPE 12 (2009 Design)
2	EACH	MONOTUBE ARMS 45-FT (2009 Design)
1	LS	EVP CABINET EQUIPMENT
4	EACH	EVP DETECTOR HEADS (HEADS A, B, C, D)

REMOVING CONCRETE BASES

EXISTING BASE NO.	204.0195* REMOVING CONCRETE BASES EACH
SB7	1
SB8	1
SB9	1
SB10	1
SB11	1
SB12	1
SB13	1
SB14	1
TOTAL	8

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

REMOVE TRAFFIC SIGNALS
STH 100 & N KILDEER CT

LOCATION	204.9105.S.62 REMOVE TRAFFIC SIGNALS LS	204.9105.S.70 REMOVE LOOP DETECTOR WIRE AND LEAD-IN CABLE LS
STH 100 & N KILDEER CT	1	1
TOTAL	1	1

NOTE: REMOVE LOOP DETECTOR WIRE AND LEAD-IN CABLE FOR LOOPS 11,12,61 AND 81. ALL OTHER LOOP DETECTOR WIRE AND LEAD-IN CABLE TO REMAIN.

WISCONSIN
ALICIA M. DOUGHERTY
E-43022
PEWAUKEE, WI
PROFESSIONAL ENGINEER
06/15/2021

FILE NAME : I:\64008_STH_57\22700400\Design\Quantities\03_030201-mq.pdf PLOT DATE : 6/15/2021 10:21:24 AM PLOT BY : HNTB PLOT NAME : 030241_mq_sp1 PLOT SCALE : 1:1

CONDUIT

FROM	TO	652.0225* CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	652.0235* CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH LF
EXT1	EXT2	18	--
EXT3	PB4	--	120
PB4	PB5	257	--
PB4	EXT4	--	14
EXT6	PB6	--	8
PB6	EXT7	--	8
EXT9	PB7	--	10
PB7	PB8	--	100
PB8	EXT12	--	26
PB3	SB7	--	13
PB3	SB20	23	--
PB4	SB8	20	--
PB6	SB9	17	--
PB7	SB10	19	--
SB10	SB11	144	--
SB11	SB12	142	--
SB12	SB13	145	--
SB13	SB14	145	--
PB8	EXT11	12	--
PB8	EXT13	5	--
	TOTALS	947	299

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

STH 100 & N KILDEER CT

ALL ITEMS ARE CATEGORY 0030 UNLESS OTHERWISE NOTED

3

LOOP DETECTOR SCHEDULE

LOOP NUMBER	HOMERUN PB	STATION	LOCATION	652.0800* CONDUIT LOOP DETECTOR LF	655.0700* LOOP DETECTOR LEAD IN CABLE LF	655.0800* LOOP DETECTOR WIRE LF
11	PB7	EXISTING	EXISTING	6	246	228
12	PB7	EXISTING	EXISTING	5	246	216
61	PB5	EXISTING	EXISTING	7	431	312
81	PB2	EXISTING	EXISTING	--	224	132
			TOTALS	18	1147	888

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

PULL BOXES STEEL

PULL BOX NO.	STATION	LOCATION	653.0135* PULL BOXES STEEL 24X36-INCH EACH	653.0140* PULL BOXES STEEL 24X42-INCH EACH
PB4	506+43.5	63.0' RT	--	1
PB5	503+87.0	63.0' RT	1	--
PB6	506+44.2	11.4' RT	--	1
PB7	506+44.6	10.1' LT	--	1
PB8	506+43.4	60.5' LT	--	1
		TOTALS	1	4

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE
*** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

3

3

REMOVING PULL BOXES

EXISTING PULL BOX NO.	653.0905* REMOVING PULL BOXES EACH
PB4	1
PB5	1
PB6	1
PB7	1
PB8	1
TOTAL	5

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

CONCRETE BASES

BASE NO.	STATION	LOCATION	654.0101* CONCRETE BASES TYPE 1 EACH	654.0105* CONCRETE BASES TYPE 5 EACH	654.0110* CONCRETE BASES TYPE 10 EACH
SB7	506+95.5	74.5' RT	--	--	1
SB8	506+63.2	64.0' RT	1	--	--
SB9	506+86.5	10.9' RT	1	--	--
SB10	506+25.5	12.2' LT	--	1	--
SB11	504+85.0	13.0' LT	--	1	--
SB12	503+45.0	04.8' LT	--	1	--
SB13	502+00.0	04.8' RT	--	1	--
SB14	500+55.0	10.0' RT	--	1	--
SB20	506+86.5	68.0' RT	1	--	--
		TOTALS	3	5	1

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE
*** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

STH 100 & N KILDEER CT

ALL ITEMS ARE CATEGORY 0030 UNLESS OTHERWISE NOTED

UNDERGROUND TRAFFIC SIGNAL CABLE NO. 14

FROM	TO	655.0240* CABLE TRAFFIC SIGNAL 7-14 AWG LF	655.0260* CABLE TRAFFIC SIGNAL 12-14 AWG LF
CB1	SB7	--	121
CB1	SB20	131	--
CB1	SB8	--	216
CB1	SB9	280	--
CB1	SB15	379	--
CB1	SB18	389	--
	TOTALS	1179	337

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ABOVE GROUND TRAFFIC SIGNAL CABLE NO. 14

FROM	TO	655.0230* CABLE TRAFFIC SIGNAL 5-14 AWG LF	655.0240* CABLE TRAFFIC SIGNAL 7-14 AWG LF
SB6	HEAD 12	19	--
	HEAD 27	--	22
	HEAD 18	15	--
SB7	HEAD 16	41	--
	HEAD 17	19	--
	HEAD 28	--	49
SB20	HEAD 19	15	--
SB8	HEAD 1	19	--
	HEAD 26	--	22
	HEAD 20	15	--
SB9	HEAD 11	--	22
SB15	HEAD 8	68	--
	HEAD 9	56	--
	HEAD 10	44	--
SB18	HEAD 21	15	--
SB16	HEAD 13	19	--
	HEAD 15	19	--
	HEAD 22	15	--
SB17	HEAD 5	--	22
	HEAD 14	49	--
	HEAD 23	15	--
SB1	HEAD 7	19	--
	HEAD 24	15	--
SB2	HEAD 6	--	22
SB4	HEAD 2	65	--
	HEAD 3	54	--
	HEAD 4	43	--
SB5	HEAD 25	15	--
	TOTAL	654	159

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

STH 100 & N KILDEER CT

ALL ITEMS ARE CATEGORY 0030 UNLESS OTHERWISE NOTED

LIGHTING WIRE

FROM	TO	655.0320* CABLE TYPE UF 2-10 AWG GROUNDED LF	655.0610* ELECTRICAL WIRE LIGHTING 12 AWG LF
CB1	SB10	319	--
SB10	LUMIN (2)	--	234
SB10	SB11	152	--
SB11	LUMIN (2)	--	234
SB11	SB12	150	--
SB12	LUMIN (2)	--	234
SB12	SB13	153	--
SB13	LUMIN (2)	--	234
SB13	SB14	153	--
SB14	LUMIN (1)	--	117
SB3	LUMIN (2)	--	234
SB19	LUMIN (1)	--	117
	TOTALS	927	1404

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ELECTRICAL WIRE TRAFFIC SIGNALS

FROM	TO	655.0515* ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG LF
SB6	SB7	113
SB7	SB20	60
SB20	SB8	155
SB8	SB9	128
SB9	SB15	161
SB15	SB18	68
SB18	SB16	137
PB3	SB7	33
PB4	SB8	40
PB6	SB9	37
PB7	SB9	74
PB8	SB15	37
	TOTAL	1043

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

TRAFFIC SIGNAL EVP DETECTOR CABLE

FROM	TO	655.0900* TRAFFIC SIGNAL EVP DETECTOR CABLE LF
CB1	SB7 (HEAD C)	176
CB1	SB15 (HEAD A)	454
CB1	SB17 (HEAD D)	410
CB1	SB4 (HEAD B)	183
	TOTALS	1223

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

CAST BASES, POLES, STANDARDS, MONOTUBE ARMS, PUSH BUTTONS, AND LUMINAIRES

SIGNAL BASE NO.	SPV.0060.62* PEDESTAL BASES BLACK EACH	SPV.0060.63* TRANSFORMER BASES BREAKAWAY 11 1/2 INCH BOLT CIRCLE BLACK EACH	SPV.0060.65* POLES TYPE 5 ALUMINUM BLACK EACH	SPV.0060.67* TRAFFIC SIGNAL STANDARDS ALUMINUM 13-FT BLACK EACH	SPV.0060.68* TRAFFIC SIGNAL STANDARDS ALUMINUM 15-FT BLACK EACH	SPV.0060.69* TRAFFIC SIGNAL STANDARDS ALUMINUM 10-FT BLACK EACH	SPV.0060.72* INSTALL POLES TYPE 9 EACH	SPV.0060.77* INSTALL MONOTUBE ARMS 25-FT EACH	SPV.0060.71* LUMINAIRE ARMS SINGLE MEMBER 4 1/2-INCH CLAMP 6-FT BLACK EACH	SPV.0060.86* PEDESTRIAN PUSH BUTTONS BLACK EACH
SB7**	--	--	--	--	--	--	1	1	--	--
SB20**	1	--	--	--	--	1	--	--	--	1
SB8**	1	--	--	--	1	--	--	--	--	1
SB9**	1	--	--	--	1	--	--	--	--	1
SB10**	--	1	1	--	--	--	--	--	2	--
SB11**	--	1	1	--	--	--	--	--	2	--
SB12**	--	1	1	--	--	--	--	--	2	--
SB13**	--	1	1	--	--	--	--	--	2	--
SB14**	--	1	1	--	--	--	--	--	1	--
SB1***	1	--	--	1	--	--	--	--	--	1
SB2***	1	--	--	--	1	--	--	--	--	1
SB3***	--	1	1	--	--	--	--	--	2	--
SB4***	--	--	--	--	--	--	--	--	--	--
SB5***	1	--	--	--	--	1	--	--	--	1
SB6***	1	--	--	--	1	--	--	--	--	1
SB15***	--	--	--	--	--	--	--	--	--	--
SB16***	1	--	--	1	--	--	--	--	--	1
SB17***	--	--	--	--	--	--	1	1	--	1
SB18***	1	--	--	--	--	1	--	--	--	1
SB19***	--	1	1	--	--	--	--	--	1	--
TOTALS	9	7	7	2	4	3	2	2	12	10

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE
** INSTALL ON NEW CONCRETE BASE
*** INSTALL ON EXISTING CONCRETE BASE

CAST BASES, POLES, STANDARDS, MONOTUBE ARMS, PUSH BUTTONS, AND LUMINAIRES (CONT.)

SIGNAL BASE NO.	SPV.0060.87* LUMINAIRES UTILITY LED C BLACK EACH	SPV.0060.89 INSTALL MONOTUBE ARMS 45-FT EACH	SPV.0060.90 INSTALL POLES TYPE 12 EACH
SB7**	--	--	--
SB20**	--	--	--
SB8**	--	--	--
SB9**	--	--	--
SB10**	2	--	--
SB11**	2	--	--
SB12**	2	--	--
SB13**	2	--	--
SB14**	1	--	--
SB1***	--	--	--
SB2***	--	--	--
SB3***	2	--	--
SB4***	--	1	1
SB5***	--	--	--
SB6***	--	--	--
SB15***	--	1	1
SB16***	--	--	--
SB17***	--	--	--
SB18***	--	--	--
SB19***	1	--	--
TOTALS	12	2	2

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE
** INSTALL ON NEW CONCRETE BASE
*** INSTALL ON EXISTING CONCRETE BASE

3

TRAFFIC SIGNAL AND PEDESTRIAN FACES

SIGNAL HEAD NO.	SIGNAL BASE NO.	SPV.0060.83* TRAFFIC SIGNAL FACE 3S 12-INCH BLACK EACH	SPV.0060.84* TRAFFIC SIGNAL FACE 4S 12-INCH BLACK EACH	SPV.0060.85* PEDESTRIAN SIGNAL FACE 16-INCH BLACK EACH
1	SB8	1	--	--
2	SB4	1	--	--
3	SB4	1	--	--
4	SB4	1	--	--
5	SB17	--	1	--
6	SB2	--	1	--
7	SB1	1	--	--
8	SB15	1	--	--
9	SB15	1	--	--
10	SB15	1	--	--
11	SB9	--	1	--
12	SB6	1	--	--
13	SB16	1	--	--
14	SB17	1	--	--
15	SB16	1	--	--
16	SB7	1	--	--
17	SB7	1	--	--
18	SB6	--	--	1
19	SB20	--	--	1
20	SB8	--	--	1
21	SB18	--	--	1
22	SB16	--	--	1
23	SB17	--	--	1
24	SB1	--	--	1
25	SB5	--	--	1
26	SB8	--	1	--
27	SB6	--	1	--
28	SB7	--	1	--
	TOTALS	14	6	8

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

3

SIGNAL MOUNTING HARDWARE
STH 100 & N KILDEER CT

LOCATION	658.5069.63 SIGNAL MOUNTING HARDWARE LS
STH 100 & N KILDEER CT	1
TOTAL	1

TRANSPORT TRAFFIC SIGNAL AND INTERSECTION LIGHTING MATERIALS
STH 100 & N KILDEER CT

LOCATION	SPV.0105.68 TRNSPT TRAFFIC SIGNALS & INTER LIGHTING MATERIALS LS
STH 100 & N KILDEER CT	1
TOTAL	1

TRANSPORT AND INSTALL STATE FURNISHED EMERGENCY VEHICLE PREEMPTION (EVP) DETECTOR HEADS
STH 100 & N KILDEER CT

LOCATION	SPV.0105.74 TRNSPT & INSTALL STATE FURN EVP HEADS LS
STH 100 & N KILDEER CT	1
TOTAL	1

SUMMARY OF STATE FURNISHED MATERIALS - FOR INFORMATION ONLY

QUANTITY	UNIT	DESCRIPTION
1	EACH	TRAFFIC SIGNAL CABINET WITH CONTROLLER
1	EACH	POLES TYPE 9-SPECIAL
3	EACH	POLES TYPE 10-SPECIAL
2	EACH	MONOTUBE ARMS 35-FT-SPECIAL
2	EACH	MONOTUBE ARMS 45-FT-SPECIAL
4	EACH	LUMINAIRE ARMS STEEL 15-FT
1	LS	EVP CABINET EQUIPMENT
4	EACH	EVP DETECTOR HEADS (HEADS A, B, C, D)
1	EACH	CAMERA ASSEMBLY (FOR TEMPORARY TRAFFIC SIGNAL)

REMOVING CONCRETE BASES

EXISTING BASE NO.	204.0195* REMOVING CONCRETE BASES EACH
CB1	1
SB1	1
SB2	1
SB3	1
SB4	1
SB5	1
SB6	1
SB7	1
SB8	1
SB9	1
SB10	1
TOTAL	11

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

STH 57 & N DEERWOOD DR

ALL ITEMS ARE CATEGORY 0030 UNLESS OTHERWISE NOTED

3

REMOVE TRAFFIC SIGNALS
STH 57 & N DEERWOOD DR

LOCATION	204.9105.S.63 REMOVE TRAFFIC SIGNALS LS	204.9105.S.67 REMOVE LOOP DETECTOR WIRE AND LEAD-IN CABLE LS
STH 57 & N DEERWOOD DR	1	1
TOTAL	1	1

WISCONSIN
ALICIA M. DOUGHERTY
E-43022
PEWAUKEE, WI
PROFESSIONAL ENGINEER
06/15/2021

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE	MISCELLANEOUS QUANTITIES – STH 57 & N DEERWOOD DR	SHEET:	E

FILE NAME : I:\64008_STH_57\22700400\Design\Quantities\02_030201-mq.pdf PLOT DATE : 6/10/2021 2:56:08 PM PLOT BY : HNTB PLOT NAME : 030241_mq_sp1 PLOT SCALE : 1:1

3

3

CONDUIT

FROM	TO	652.0225* CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	652.0235* CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH LF	652.0615* CONDUIT SPECIAL 3-INCH LF
CB1	PB1	--	57	--
PB1	PB2	--	56	--
PB2	PB3	--	--	138
PB3	PB4	22	--	--
PB4	PB5	175	--	--
PB5	PB6	130	--	--
PB3	PB7	--	--	106
PB7	PB8	--	80	--
PB8	PB9	15	--	--
PB8	PB10	--	--	138
PB10	PB11	--	76	--
PB11	PB12	190	--	--
PB12	PB13	131	--	--
PB11	PB14	--	124	--
PB14	PB15	--	44	--
PB15	PB16	--	104	--
PB16	PB17	41	--	--
PB16	PB18	--	126	--
PB18	PB19	10	--	--
PB19	PB20	126	--	--
PB18	PB21	--	--	118
PB21	CB1	--	33	--
PB1	SB1	8	--	--
PB3	SB2	15	--	--
PB3	SB3	--	5	--
PB5	SB4	37	--	--
PB6	SB5	33	--	--
PB7	SB6	8	--	--
PB8	SB7	11	--	--
PB10	SB8	--	4	--
PB11	SB9	21	--	--
PB11	SB10	13	--	--
PB14	SB11	31	--	--
PB15	SB12	15	--	--
PB15	SB13	130	--	--
SB13	SB14	161	--	--
PB16	SB15	--	29	--
PB18	SB16	16	--	--
PB21	SB17	--	13	--
	TOTALS	1339	751	500

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

LOOP DETECTOR SCHEDULE

LOOP NUMBER	HOMERUN PB	STATION	LOCATION	SIZE (FT) X (FT)	NO. OF TURNS	PAVEMENT TYPE	SDD INSTALLATION REFERENCE	652.0800* CONDUIT LOOP DETECTOR LF	655.0700* LOOP DETECTOR LEAD IN CABLE LF	655.0800* LOOP DETECTOR WIRE LF
11	PB15	136+38.0	2.1' RT	6 X 20	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	78	202	246
12	PB15	136+66.5	2.1' RT	6 X 20	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	68	202	216
21	PB6	141+8.0	2.0' LT	6 X 20	4	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	78	1460	324
22	PB5	139+80.0	30.6' LT	6 X 6	5	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	84	330	432
23	PB5	139+80.0	19.6' LT	6 X 6	5	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	62	330	322
31	PB9	137+26.3	107.3' RT	6 X 20	3	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	96	241	300
32	PB9	137+29.5	79.5' RT	6 X 20	3	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	96	241	300
41	PB20	137+19.0	223.0' LT	6 X 15	3	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	54	223	174
42	PB19	137+15.0	98.5' LT	6 X 20	3	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	72	97	228
43	PB19	137+15.0	70.6' LT	6 X 20	3	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	72	97	228
51	PB4	137+75.5	8.1' LT	6 X 20	3	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	80	155	252
52	PB4	138+3.5	8.1' LT	6 X 20	3	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	84	155	264
61	PB13	133+30.0	30. RT	6 X 20	4	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	102	607	420
62	PB12	134+60.0	36.1' RT	6 X 10	5	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	84	476	432
63	PB12	134+60.0	24.1' RT	6 X 10	5	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	108	476	552
71	PB19	137+27.0	98.5' LT	6 X 20	3	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	94	97	294
72	PB19	137+27.0	70.6' LT	6 X 20	3	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	94	97	294
81	PB9	137+38.3	107.4' RT	6 X 20	3	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	72	241	228
82	PB9	137+41.5	79.6' RT	6 X 20	3	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	72	241	228
S1	PB17	136+00.0	44.1' LT	6 X 6	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	52	191	168
S2	PB17	136+00.0	32.1' LT	6 X 6	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	76	191	240
S3	PB17	136+00.0	20.1' LT	6 X 6	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	100	191	312
S4	PB4	138+12.0	33.0' RT	6 X 6	3	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	68	155	216
S5	PB4	138+12.0	21.5' RT	6 X 6	3	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	44	155	144
							TOTALS	1890	6851	6814

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE
** LOCATION IS TO FRONT CENTER OF DETECTOR LOOP
*** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

PULL BOXES STEEL

PULL BOX NO.	STATION	LOCATION	653.0135* PULL BOXES STEEL 24X36-INCH EACH	653.0140* PULL BOXES STEEL 24X42-INCH EACH
PB1	137+80.0	61.5' LT	--	1
PB2	138+7.8	61.6' LT	--	1
PB3	137+82.4	2.4' RT	--	1
PB4	138+4.0	8.5' RT	1	--
PB5	139+78.0	2.0' RT	1	--
PB6	141+8.0	2.0' LT	1	--
PB7	137+62.6	52.0' RT	--	1
PB8	137+52.5	90.0' RT	--	1
PB9	137+51.0	105.0' RT	1	--
PB10	136+84.0	90.0' RT	--	1
PB11	136+49.0	75.5' RT	--	1
PB12	134+62.0	65.0' RT	1	--
PB13	133+32.0	65.0' RT	1	--
PB14	136+49.0	13.0' RT	--	1
PB15	136+49.0	9.0' LT	--	1
PB16	136+49.0	61.0' LT	--	1
PB17	136+8.0	61.0' LT	1	--
PB18	137+3.0	85.0' LT	--	1
PB19	137+3.0	94.5' LT	1	--
PB20	137+3.0	221.0' LT	1	--
PB21	137+61.5	85.0' LT	--	1
		TOTALS	9	12

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

*** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

REMOVING PULL BOXES

EXISTING PULL BOX NO.	653.0905* REMOVING PULL BOXES EACH
PB1	1
PB2	1
PB3	1
PB4	1
PB5	1
PB6	1
PB7	1
PB8	1
PB9	1
PB10	1
PB11	1
PB12	1
PB13	1
PB14	1
TOTAL	14

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

CONCRETE BASES

BASE NO.	STATION	LOCATION	654.0101* CONCRETE BASES TYPE 1 EACH	654.0102* CONCRETE BASES TYPE 2 EACH	654.0105* CONCRETE BASES TYPE 5 EACH	654.0120* CONCRETE BASES TYPE 10-SPECIAL EACH	654.0217* CONCRETE CONTROL CABINET BASES TYPE 9 SPECIAL EACH
CB1	137+68.0	76.0' LT	--	--	--	--	1
SB1	137+79.5	53.5' LT	1	--	--	--	--
SB2	137+67.5	4.0' RT	1	--	--	--	--
SB3	137+87.0	5.0' RT	--	--	--	1	--
SB4	139+41.1	2.9' RT	--	--	1	--	--
SB5	140+75.0	2.0' RT	--	--	1	--	--
SB6	137+69.0	57.0' RT	1	--	--	--	--
SB7	137+57.0	80.0' RT	1	--	--	--	--
SB8	136+82.1	86.1' RT	--	--	--	1	--
SB9	136+69.5	71.0' RT	1	--	--	--	--
SB10	136+59.5	67.5' RT	1	--	--	--	--
SB11	136+79.5	13.0' RT	1	--	--	--	--
SB12	136+64.0	9.0' LT	--	1	--	--	--
SB13	135+19.0	8.5' LT	--	--	1	--	--
SB14	133+59.0	9.6' RT	--	--	1	--	--
SB15	136+78.6	61.0' LT	--	--	--	1	--
SB16	136+94.8	71.0' LT	1	--	--	--	--
SB17	137+59.5	72.0' LT	--	--	--	1	--
		TOTALS	8	1	4	4	1

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE
*** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

STH 57 & N DEERWOOD DR

ALL ITEMS ARE CATEGORY 0030 UNLESS OTHERWISE NOTED

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UNDERGROUND TRAFFIC SIGNAL CABLE NO. 14

FROM	TO	655.0230* CABLE TRAFFIC SIGNAL 5-14 AWG LF	655.0240* CABLE TRAFFIC SIGNAL 7-14 AWG LF	655.0260* CABLE TRAFFIC SIGNAL 12-14 AWG LF	655.0270* CABLE TRAFFIC SIGNAL 15-14 AWG LF
CB1	SB1	--	--	54	--
CB1	SB2	190	--	--	--
CB1	SB3	--	--	--	180
CB1	SB6	--	252	--	--
CB1	SB7	--	--	311	--
CB1	SB8	--	--	389	--
CB1	SB9	--	397	--	--
CB1	SB10	--	--	389	--
CB1	SB11	--	329	--	--
CB1	SB12	--	--	275	--
CB1	SB15	--	--	221	--
CB1	SB16	--	--	129	--
CB1	SB17	--	--	51	--
	TOTALS	190	978	1819	180

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ABOVE GROUND TRAFFIC SIGNAL CABLE NO. 14

FROM	TO	655.0230* CABLE TRAFFIC SIGNAL 5-14 AWG LF	655.0240* CABLE TRAFFIC SIGNAL 7-14 AWG LF
SB1	HEAD 5	--	19
	HEAD 7	22	--
	HEAD 29	15	--
SB3	HEAD 2	42	--
	HEAD 3	54	--
	HEAD 6	--	22
	HEAD 10	--	22
SB6	HEAD 30	15	--
SB7	HEAD 16	--	22
	HEAD 18	19	--
	HEAD 31	15	--
SB8	HEAD 14	51	--
	HEAD 15	39	--
	HEAD 17	--	66
SB9	HEAD 32	15	--
SB10	HEAD 1	19	--
	HEAD 11	--	22
	HEAD 23	15	--
SB11	HEAD 24	15	--
	HEAD 25	15	--
SB12	HEAD 4	--	22
	HEAD 12	--	22
SB15	HEAD 8	66	--
	HEAD 9	54	--
	HEAD 26	15	--
SB16	HEAD 13	19	--
	HEAD 21	--	22
	HEAD 27	15	--
SB17	HEAD 19	45	--
	HEAD 20	35	--
	HEAD 22	--	53
	HEAD 28	15	--
	TOTAL	615	292

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

LIGHTING WIRE

FROM	TO	655.0320* CABLE TYPE UF 2-10 AWG GROUNDED LF	655.0610* ELECTRICAL WIRE LIGHTING 12 AWG LF
CB1	SB3	180	--
SB3	LUMIN (2)	--	288
SB3	SB4	295	--
SB4	LUMIN (1)	--	117
SB4	SB5	240	--
SB5	LUMIN (1)	--	117
SB3	SB8	243	--
SB8	LUMIN (1)	--	144
CB1	SB17	51	--
SB17	LUMIN (1)	--	144
SB17	SB12	274	--
SB12	LUMIN (2)	--	234
SB12	SB13	169	--
SB13	LUMIN (1)	--	117
SB13	SB14	109	--
SB14	LUMIN (1)	--	117
	TOTALS	1561	1278

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ELECTRICAL WIRE TRAFFIC SIGNALS

FROM	TO	655.0515* ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG LF
CB1	SB1	54
SB1	SB2	176
SB2	SB3	44
SB3	SB4	295
SB4	SB5	240
SB5	SB6	509
SB6	SB7	99
SB7	SB8	124
SB8	SB9	103
SB9	SB10	58
SB10	SB11	146
SB11	SB12	108
SB12	SB15	136
SB15	SB16	148
SB16	SB17	128
SB17	CB1	51
PB1	SB1	28
PB2	SB1	72
PB3	SB3	25
PB4	SB3	63
PB5	SB4	57
PB6	SB5	53
PB7	SB6	28
PB8	SB7	31
PB10	SB8	24
PB11	SB10	33
PB14	SB11	51
PB15	SB12	35
PB16	SB15	49
PB18	SB16	36
PB21	CB1	34
	TOTAL	3038

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

STH 57 & N DEERWOOD DR

ALL ITEMS ARE CATEGORY 0030 UNLESS OTHERWISE NOTED

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TRAFFIC SIGNAL EVP DETECTOR CABLE

FROM	TO	655.0900* TRAFFIC SIGNAL EVP DETECTOR CABLE LF
CB1	SB3 (HEAD B)	245
CB1	SB8 (HEAD C)	464
CB1	SB15 (HEAD A)	296
CB1	SB17 (HEAD D)	116
	TOTALS	1121

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ELECTRICAL SERVICE METER BREAKER PEDESTAL STH 57 & N DEERWOOD DR

BASE NO.	656.0200.63 ELECTRICAL SERVICE METER BREAKER PEDESTAL LS
CB1	1
TOTAL	1

***FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

STH 57 & N DEERWOOD DR

ALL ITEMS ARE CATEGORY 0030 UNLESS OTHERWISE NOTED

3

CAST BASES, POLES, STANDARDS, MONOTUBE ARMS, PUSH BUTTONS, AND LUMINAIRES

SIGNAL BASE NO.	SPV.0060.62* PEDESTAL BASES BLACK EACH	SPV.0060.63* TRANSFORMER BASES BREAKAWAY 11 1/2 INCH BOLT CIRCLE BLACK EACH	SPV.0060.64* POLES TYPE 3 BLACK EACH	SPV.0060.65* POLES TYPE 5 ALUMINUM BLACK EACH	SPV.0060.66* TRAFFIC SIGNAL STANDARDS ALUMINUM 3.5-FT BLACK EACH	SPV.0060.68* TRAFFIC SIGNAL STANDARDS ALUMINUM 15-FT BLACK EACH	SPV.0060.69* TRAFFIC SIGNAL STANDARDS ALUMINUM 10-FT BLACK EACH
SB1	1	--	--	--	--	1	--
SB2	1	--	--	--	1	--	--
SB3	--	--	--	--	--	--	--
SB4	--	1	--	1	--	--	--
SB5	--	1	--	1	--	--	--
SB6	1	--	--	--	--	--	1
SB7	1	--	--	--	--	1	--
SB8	--	--	--	--	--	--	--
SB9	1	--	--	--	--	--	1
SB10	1	--	--	--	--	1	--
SB11	1	--	--	--	--	--	1
SB12	--	1	1	--	--	--	--
SB13	--	1	--	1	--	--	--
SB14	--	1	--	1	--	--	--
SB15	--	--	--	--	--	--	--
SB16	1	--	--	--	--	1	--
SB17	--	--	--	--	--	--	--
TOTALS	8	5	1	4	1	4	3

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

CAST BASES, POLES, MONOTUBE ARMS, PUSH BUTTONS, AND LUMINAIRES (CONT.)

SIGNAL BASE NO.	SPV.0060.73* INSTALL POLES TYPE 9-SPECIAL EACH	SPV.0060.75* INSTALL POLES TYPE 10-SPECIAL EACH	SPV.0060.79* INSTALL MONOTUBE ARMS 35-FT SPECIAL EACH	SPV.0060.81* INSTALL MONOTUBE ARMS 45-FT SPECIAL EACH	SPV.0060.82* INSTALL LUMINAIRE ARMS STEEL 15-FT EACH	SPV.0060.70* LUMINAIRE ARMS SINGLE MEMBER 4-INCH CLAMP 6-FT BLACK EACH	SPV.0060.71* LUMINAIRE ARMS SINGLE MEMBER 4 1/2-INCH CLAMP 6-FT BLACK EACH	SPV.0060.86* PEDESTRIAN PUSH BUTTONS BLACK EACH	SPV.0060.87* LUMINAIRES UTILITY LED C BLACK EACH
SB1	--	--	--	--	--	--	--	1	--
SB2	--	--	--	--	--	--	--	1	--
SB3	--	1	1	--	2	--	--	--	2
SB4	--	--	--	--	--	--	1	--	1
SB5	--	--	--	--	--	--	1	--	1
SB6	--	--	--	--	--	--	--	1	--
SB7	--	--	--	--	--	--	--	1	--
SB8	--	1	--	1	1	--	--	--	1
SB9	--	--	--	--	--	--	--	1	--
SB10	--	--	--	--	--	--	--	1	--
SB11	--	--	--	--	--	--	--	1	--
SB12	--	--	--	--	--	2	--	--	2
SB13	--	--	--	--	--	--	1	--	1
SB14	--	--	--	--	--	--	1	--	1
SB15	1	--	--	1	--	--	--	1	--
SB16	--	--	--	--	--	--	--	1	--
SB17	--	1	1	--	1	--	--	1	1
TOTALS	1	3	2	2	4	2	4	10	10

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

TRAFFIC SIGNAL AND PEDESTRIAN FACES

SIGNAL HEAD NO.	SIGNAL BASE NO.	SPV.0060.83* TRAFFIC SIGNAL FACE 3S 12-INCH BLACK EACH	SPV.0060.84* TRAFFIC SIGNAL FACE 4S 12-INCH BLACK EACH	SPV.0060.85* PEDESTRIAN SIGNAL FACE 16-INCH BLACK EACH
1	SB10	1	--	--
2	SB3	1	--	--
3	SB3	1	--	--
4	SB12	--	1	--
5	SB1	--	1	--
6	SB3	--	1	--
7	SB1	1	--	--
8	SB15	1	--	--
9	SB15	1	--	--
10	SB3	--	1	--
11	SB10	--	1	--
12	SB12	--	1	--
13	SB16	1	--	--
14	SB8	1	--	--
15	SB8	1	--	--
16	SB7	--	1	--
17	SB8	--	1	--
18	SB7	1	--	--
19	SB17	1	--	--
20	SB17	1	--	--
21	SB16	--	1	--
22	SB17	--	1	--
23	SB10	--	--	1
24	SB11	--	--	1
25	SB11	--	--	1
26	SB15	--	--	1
27	SB16	--	--	1
28	SB17	--	--	1
29	SB1	--	--	1
30	SB6	--	--	1
31	SB7	--	--	1
32	SB9	--	--	1
	TOTALS	12	10	10

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

STH 57 & N DEERWOOD DR

ALL ITEMS ARE CATEGORY 0030 UNLESS OTHERWISE NOTED

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SIGNAL MOUNTING HARDWARE
STH 57 & N DEERWOOD DR

LOCATION	658.5069.64 SIGNAL MOUNTING HARDWARE LS
STH 100 & N DEERWOOD DR	1
TOTAL	1

TEMPORARY TRAFFIC SIGNALS
STH 57 & N DEERWOOD DR

LOCATION	661.0200.63 TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS LS	661.0300* GENERATORS DAY	677.0200* INSTALL CAMERA ASSEMBLY EACH
STH 57 & N DEERWOOD DR	1	1	1
TOTALS	1	1	1

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

TRANSPORT AND INSTALL STATE FURNISHED TRAFFIC SIGNAL CABINET
STH 57 & N DEERWOOD DR

LOCATION	SPV.0105.63 TRNSPT & INSTALL STATE FURN TRAFFIC SIGNAL CABINET LS
STH 57 & N DEERWOOD DR	1
TOTAL	1

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE	MISCELLANEOUS QUANTITIES – STH 57 & N DEERWOOD DR	SHEET:	E

FILE NAME : I:\64008_STH_57\22700400\Design\Quantities\02_030201-mq.pdf PLOT DATE : 6/10/2021 2:56:08 PM PLOT BY : HNTB PLOT NAME : 030241_mq_sp10 PLOT SCALE : 1:1

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TRANSPORT AND INSTALL STATE FURNISHED EMERGENCY VEHICLE PREEMPTION (EVP) DETECTOR HEADS
STH 57 & N DEERWOOD DR

LOCATION	SPV.0105.75 TRNSPT & INSTALL STATE FURN EVP HEADS LS
STH 57 & N DEERWOOD DR	1
TOTAL	1

TRANSPORT TRAFFIC SIGNAL AND INTERSECTION LIGHTING MATERIALS
STH 57 & N DEERWOOD DR

LOCATION	SPV.0105.69 TRNSPT TRAFFIC SIGNALS & INTER LIGHTING MATERIALS LS
STH 57 & N DEERWOOD DR	1
TOTAL	1

TEMPORARY EMERGENCY VEHICLE PREEMPTION (EVP)
STH 57 & N DEERWOOD DR

LOCATION	SPV.0105.86 TEMPORARY EVP SYSTEM LS
STH 57 & N DEERWOOD DR	1
TOTAL	1

SUMMARY OF STATE FURNISHED MATERIALS - FOR INFORMATION ONLY

QUANTITY	UNIT	DESCRIPTION
1	EACH	TRAFFIC SIGNAL CABINET WITH CONTROLLER
2	EACH	POLES TYPE 10
2	EACH	POLES TYPE 9-SPECIAL
2	EACH	MONOTUBE ARMS 25-FT
1	EACH	MONOTUBE ARMS 35-FT-SPECIAL
1	EACH	MONOTUBE ARMS 40-FT-SPECIAL
3	EACH	LUMINAIRE ARMS STEEL 15-FT
1	LS	EVP CABINET EQUIPMENT
4	EACH	EVP DETECTOR HEADS (HEADS A, B, C, D)
1	EACH	CAMERA ASSEMBLY (FOR TEMPORARY TRAFFIC SIGNAL)

REMOVING CONCRETE BASES

EXISTING BASE NO.	204.0195* REMOVING CONCRETE BASES EACH
CB1	1
SB1	1
SB2	1
SB3	1
SB4	1
SB5	1
SB6	1
SB7	1
SB8	1
SB9	1
SB10	1
SB11	1
LP1	1
LP2	1
TOTAL	14

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

STH 57 & W SCHROEDER DR

ALL ITEMS ARE CATEGORY 0030 UNLESS OTHERWISE NOTED

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REMOVE TRAFFIC SIGNALS
STH 57 & W SCHROEDER DR

LOCATION	204.9105.S.64 REMOVE TRAFFIC SIGNALS LS	204.9105.S.68 REMOVE LOOP DETECTOR WIRE AND LEAD-IN CABLE LS
STH 57 & W SCHROEDER DR	1	1
TOTAL	1	1

WISCONSIN
ALICIA M. DOUGHERTY
E-43022
PEWAUKEE, WI
PROFESSIONAL ENGINEER
06/15/2021

3

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CONDUIT

FROM	TO	652.0225* CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	652.0235* CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH LF	652.0615* CONDUIT SPECIAL 3-INCH LF
CB1	PB1	--	45	--
PB1	PB2	--	142	--
PB2	PB3	161	--	--
PB3	PB4	130	--	--
PB2	PB5	--	--	124
PB5	PB6	15	--	--
PB5	PB7	--	--	84
PB7	PB8	32	--	--
PB7	PB9	--	154	--
PB9	PB10	16	--	--
PB10	PB11	156	--	--
PB9	PB12	--	--	80
PB12	PB13	--	--	78
PB13	PB14	--	90	--
PB14	PB15	--	74	--
PB15	PB16	153	--	--
PB16	PB17	130	--	--
PB15	PB18	--	--	120
PB18	PB19	20	--	--
PB18	PB20	--	--	90
PB20	PB21	37	--	--
PB20	PB22	--	84	--
PB22	PB23	--	102	--
PB23	PB24	8	--	--
PB24	PB25	155	--	--
PB23	PB26	--	--	114
PB26	CB1	--	39	--
PB1	SB1	8	--	--
PB1	SB2	27	--	--
PB6	SB3	13	--	--
PB5	SB4	120	--	--
SB4	SB5	151	--	--
PB7	SB6	--	12	--
PB9	SB7	34	--	--
PB9	SB8	9	--	--
PB12	SB9	18	--	--
PB12	SB10	--	6	--
PB13	SB11	12	--	--
PB14	SB12	10	--	--
PB19	SB13	16	--	--
PB18	SB14	115	--	--
SB13	SB15	141	--	--
PB22	SB16	--	9	--
PB23	SB17	18	--	--
PB26	SB18	--	5	--
	TOTALS	1705	762	690

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

LOOP DETECTOR SCHEDULE

LOOP NUMBER	HOMERUN PB	STATION	LOCATION	SIZE (FT) X (FT)	NO. OF TURNS	PAVEMENT TYPE	SDD INSTALLATION REFERENCE	652.0800* CONDUIT LOOP DETECTOR LF	655.0700* LOOP DETECTOR LEAD IN CABLE LF	655.0800* LOOP DETECTOR WIRE LF
11	PB6	150+06.0	02.1' RT	6 X 20	3	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	70	179	222
12	PB6	150+34.0	02.1' RT	6 X 20	3	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	70	179	222
21	PB17	154+80.0	26.0' LT	6 X 20	4	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	84	567	348
22	PB16	153+50.0	32.1' LT	6 X 10	5	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	64	437	332
23	PB16	153+50.0	20.1' LT	6 X 10	5	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	86	437	442
31	PB24	150+98.1	97.0' RT	6 X 20	3	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	92	95	288
32	PB24	150+98.6	69.0' RT	6 X 20	3	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	92	95	288
41	PB11	151+44.9	227.5' LT	6 X 16	4	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	62	453	260
42	PB10	150+70.4	101.0' LT	6 X 20	3	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	72	297	228
43	PB10	150+64.9	73.5' LT	6 X 20	3	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	68	297	216
44	PB10	150+82.4	100.5' LT	6 X 20	3	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	96	297	300
45	PB10	150+77.9	73.0' LT	6 X 20	3	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	94	297	294
51	PB19	151.74.5	02.1' LT	6 X 20	3	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	68	245	216
52	PB19	151+46.5	02.1' LT	6 X 20	3	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	74	245	234
61	PB4	147+02.0	26.0' RT	6 X 20	4	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	84	393	348
62	PB3	148+32.0	32.1' RT	6 X 6	4	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	58	263	244
63	PB3	148+32.0	20.1' RT	6 X 6	4	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	82	263	340
81	PB25	151+00.0	249.1' RT	6 X 14	3	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	56	249	180
82	PB24	151+09.1	97.0' RT	6 X 20	3	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	72	95	228
83	PB24	151+09.6	69.0' RT	6 X 20	3	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	70	95	222
S1	PB8	149+55.0	32.1' LT	6 X 6	4	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	54	238	228
S2	PB8	149+55.0	20.1' LT	6 X 6	4	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	78	238	324
S3	PB21	152+30.0	32.1' RT	6 X 6	4	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	62	217	260
S4	PB21	152+30.0	20.1' RT	6 X 6	4	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	86	217	356
							TOTALS	1794	6388	6620

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE
** LOCATION IS TO FRONT CENTER OF DETECTOR LOOP
*** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

STH 57 & W SCHROEDER DR

ALL ITEMS ARE CATEGORY 0030 UNLESS OTHERWISE NOTED

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PULL BOXES STEEL

PULL BOX NO.	STATION	LOCATION	653.0135* PULL BOXES STEEL 24X36-INCH EACH	653.0140* PULL BOXES STEEL 24X42-INCH EACH
PB1	150+57.0	74.0' RT	--	1
PB2	149+95.0	54.0' RT	--	1
PB3	148+34.0	52.0' RT	1	--
PB4	147+04.0	52.0' RT	1	--
PB5	149+95.0	08.5' LT	--	1
PB6	150+10.0	08.5' LT	1	--
PB7	149+95.0	50.0' LT	--	1
PB8	149+63.0	50.0' LT	1	--
PB9	150+54.0	82.5' LT	--	1
PB10	150+58.0	98.0' LT	1	--
PB11	151+29.0	234.0' LT	1	--
PB12	151+29.0	82.5' LT	--	1
PB13	151+32.5	82.5' LT	--	1
PB14	151+58.0	52.0' LT	1	--
PB15	151+95.0	50.5' LT	--	1
PB16	153+48.0	50.5' LT	1	--
PB17	154+78.0	52.0' LT	1	--
PB18	151+95.0	09.0' RT	--	1
PB19	151+74.5	09.0' RT	1	--
PB20	151+95.0	54.0' RT	--	1
PB21	152+32.0	54.0' RT	1	--
PB22	151+53.0	54.1' RT	1	--
PB23	151+21.0	84.5' RT	--	1
PB24	151+21.0	92.9' RT	1	--
PB25	151+15.0	247.0' RT	1	--
PB26	150+64.0	85.0' RT	--	1
		TOTALS	14	12

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE
*** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

REMOVING PULL BOXES

EXISTING PULL BOX NO.	653.0905* REMOVING PULL BOXES EACH
PB1	1
PB2	1
PB3	1
PB4	1
PB5	1
PB6	1
PB7	1
PB8	1
PB9	1
PB10	1
PB11	1
PB12	1
PB13	1
PB14	1
PB15	1
TOTAL	15

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

CONCRETE BASES

BASE NO.	STATION	LOCATION	654.0101* CONCRETE BASES TYPE 1 EACH	654.0102* CONCRETE BASES TYPE 2 EACH	654.0105* CONCRETE BASES TYPE 5 EACH	654.0110* CONCRETE BASES TYPE 10 EACH	654.0120* CONCRETE BASES TYPE 10-SPECIAL EACH	654.0217* CONCRETE CONTROL CABINET BASES TYPE 9 SPECIAL EACH
CB1	150+51.0	87.5' RT	--	--	--	--	--	1
SB1	150+51.2	68.3' RT	1	--	--	--	--	--
SB2	150+33.2	59.3' RT	1	--	--	--	--	--
SB3	150+23.0	09.0' LT	--	1	--	--	--	--
SB4	148+75.0	09.0' LT	--	--	1	--	--	--
SB5	147+25.0	05.0' RT	--	--	1	--	--	--
SB6	150+07.0	51.0' LT	--	--	--	--	1	--
SB7	150+33.0	57.0' LT	1	--	--	--	--	--
SB8	150+50.2	74.3' LT	1	--	--	--	--	--
SB9	150+93.3	64.4' LT	1	--	--	--	--	--
SB10	150+94.0	77.0' LT	--	--	--	1	--	--
SB11	151+35.6	70.6' LT	1	--	--	--	--	--
SB12	151+49.0	56.0' LT	1	--	--	--	--	--
SB13	151+58.0	09.0' RT	--	1	--	--	--	--
SB14	153+10.0	06.0' RT	--	--	1	--	--	--
SB15	154+50.0	08.0' LT	--	--	1	--	--	--
SB16	151+44.1	58.2' RT	--	--	--	--	1	--
SB17	151+29.1	69.1' RT	1	--	--	--	--	--
SB18	150+63.0	80.0' RT	--	--	--	1	--	--
		TOTALS	8	2	4	2	2	1

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

*** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

UNDERGROUND TRAFFIC SIGNAL CABLE NO. 14

FROM	TO	655.0240* CABLE TRAFFIC SIGNAL 7-14 AWG LF	655.0260* CABLE TRAFFIC SIGNAL 12-14 AWG LF
CB1	SB1	50	--
CB1	SB2	--	69
CB1	SB3	--	251
CB1	SB6	277	--
CB1	SB7	392	--
CB1	SB8	--	367
CB1	SB9	432	--
CB1	SB10	--	420
CB1	SB11	--	481
CB1	SB12	--	438
CB1	SB13	--	351
CB1	SB16	--	189
CB1	SB17	--	131
CB1	SB18	45	--
	TOTALS	1196	2697

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

STH 57 & W SCHROEDER DR

ALL ITEMS ARE CATEGORY 0030 UNLESS OTHERWISE NOTED

3

ABOVE GROUND TRAFFIC SIGNAL CABLE NO. 14

FROM	TO	655.0230* CABLE TRAFFIC SIGNAL 5-14 AWG LF	655.0240* CABLE TRAFFIC SIGNAL 7-14 AWG LF
SB1	HEAD 28	15	--
SB2	HEAD 1	19	--
	HEAD 11	--	22
	HEAD 21	15	--
SB3	HEAD 4	--	22
	HEAD 12	--	22
SB6	HEAD 8	56	--
	HEAD 9	44	--
SB7	HEAD 22	15	--
SB8	HEAD 13	19	--
	HEAD 19	--	22
	HEAD 23	15	--
SB10	HEAD 17	42	--
	HEAD 20	--	32
SB11	HEAD 18	19	--
	HEAD 24	15	--
SB12	HEAD 5	--	22
	HEAD 7	19	--
	HEAD 25	15	--
SB13	HEAD 6	--	22
	HEAD 10	--	22
SB16	HEAD 2	62	--
	HEAD 3	50	--
	HEAD 26	15	--
SB17	HEAD 16	19	--
	HEAD 27	15	--
SB18	HEAD 14	44	--
	HEAD 15	19	--
	TOTAL	532	186

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

STH 57 & W SCHROEDER DR

ALL ITEMS ARE CATEGORY 0030 UNLESS OTHERWISE NOTED

LIGHTING WIRE

FROM	TO	655.0320* CABLE TYPE UF 2-10 AWG GROUNDED LF	655.0610* ELECTRICAL WIRE LIGHTING 12 AWG LF
CB1	SB3	251	--
SB3	LUMIN (2)	--	234
SB3	SB4	188	--
SB4	LUMIN (1)	--	117
SB4	SB5	159	--
SB5	LUMIN (1)	--	117
SB3	SB10	285	--
SB10	LUMIN (2)	--	288
CB1	SB18	45	--
SB18	LUMIN (1)	--	144
SB18	SB13	340	--
SB13	LUMIN (2)	--	234
SB13	SB14	191	--
SB14	LUMIN (1)	--	117
SB14	SB15	149	--
SB15	LUMIN (1)	--	117
	TOTALS	1608	1368

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ELECTRICAL WIRE TRAFFIC SIGNALS

FROM	TO	655.0515* ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG LF
CB1	SB1	50
SB1	SB2	59
SB2	SB3	260
SB3	SB6	138
SB6	SB7	163
SB7	SB8	67
SB8	SB9	107
SB9	SB10	48
SB10	SB11	97
SB11	SB12	107
SB12	SB13	215
SB13	SB16	205
SB16	SB17	119
SB17	SB18	120
SB18	CB1	42
PB1	SB1	28
PB2	SB1	99
PB5	SB3	64
PB6	SB3	33
PB7	SB6	32
PB9	SB8	29
PB12	SB10	26
PB13	SB11	32
PB14	SB12	30
PB15	SB12	83
PB18	SB13	72
PB19	SB13	36
PB20	SB16	88
PB22	SB16	30
PB23	SB17	41
PB26	SB18	28
	TOTAL	2548

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

TRAFFIC SIGNAL EVP DETECTOR CABLE

FROM	TO	655.0900* TRAFFIC SIGNAL EVP DETECTOR CABLE LF
CB1	SB6 (HEAD A)	358
CB1	SB10 (HEAD D)	475
CB1	SB16 (HEAD B)	260
CB1	SB18 (HEAD C)	100
	TOTALS	1193

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ELECTRICAL SERVICE METER BREAKER PEDESTAL STH 57 & W SCHROEDER DR

BASE NO.	656.0200.64 ELECTRICAL SERVICE METER BREAKER PEDESTAL LS
CB1	1
TOTAL	1

***FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

3

CAST BASES, POLES, STANDARDS, MONOTUBE ARMS, PUSH BUTTONS, AND LUMINAIRES

SIGNAL BASE NO.	SPV.0060.62* PEDESTAL BASES BLACK EACH	SPV.0060.63* TRANSFORMER BASES BREAKAWAY 11 1/2 INCH BOLT CIRCLE BLACK EACH	SPV.0060.64* POLES TYPE 3 BLACK EACH	SPV.0060.65* POLES TYPE 5 ALUMINUM BLACK EACH	SPV.0060.67* TRAFFIC SIGNAL STANDARDS ALUMINUM 13-FT BLACK EACH	SPV.0060.68* TRAFFIC SIGNAL STANDARDS ALUMINUM 15-FT BLACK EACH	SPV.0060.69* TRAFFIC SIGNAL STANDARDS ALUMINUM 10-FT BLACK EACH
SB1	1	--	--	--	--	--	1
SB2	1	--	--	--	--	1	--
SB3	--	1	1	--	--	--	--
SB4	--	1	--	1	--	--	--
SB5	--	1	--	1	--	--	--
SB6	--	--	--	--	--	--	--
SB7	1	--	--	--	--	--	1
SB8	1	--	--	--	--	1	--
SB9	1	--	--	--	--	--	1
SB10	--	--	--	--	--	--	--
SB11	1	--	--	--	1	--	--
SB12	1	--	--	--	--	1	--
SB13	--	1	1	--	--	--	--
SB14	--	1	--	1	--	--	--
SB15	--	1	--	1	--	--	--
SB16	--	--	--	--	--	--	--
SB17	1	--	--	--	1	--	--
SB18	--	--	--	--	--	--	--
TOTALS	8	6	2	4	2	3	3

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

CAST BASES, POLES, MONOTUBE ARMS, PUSH BUTTONS, AND LUMINAIRES (CONT.)

SIGNAL BASE NO.	SPV.0060.73* INSTALL POLES TYPE 9-SPECIAL EACH	SPV.0060.74* INSTALL POLES TYPE 10 EACH	SPV.0060.77* INSTALL MONOTUBE ARMS 25-FT EACH	SPV.0060.79* INSTALL MONOTUBE ARMS 35-FT SPECIAL EACH	SPV.0060.80* INSTALL MONOTUBE ARMS 40-FT SPECIAL EACH	SPV.0060.82* INSTALL LUMINAIRE ARMS STEEL 15-FT EACH	SPV.0060.70* LUMINAIRE ARMS SINGLE MEMBER 4-INCH CLAMP 6-FT BLACK EACH	SPV.0060.71* LUMINAIRE ARMS SINGLE MEMBER 4 1/2-INCH CLAMP 6-FT BLACK EACH	SPV.0060.86* PEDESTRIAN PUSH BUTTONS BLACK EACH	SPV.0060.87* LUMINAIRES UTILITY LED C BLACK EACH
SB1	--	--	--	--	--	--	--	--	1	--
SB2	--	--	--	--	--	--	--	--	1	--
SB3	--	--	--	--	--	--	2	--	--	2
SB4	--	--	--	--	--	--	--	1	--	1
SB5	--	--	--	--	--	--	--	1	--	1
SB6	1	--	--	1	--	--	--	--	--	--
SB7	--	--	--	--	--	--	--	--	1	--
SB8	--	--	--	--	--	--	--	--	1	--
SB9	--	--	--	--	--	--	--	--	1	--
SB10	--	1	1	--	--	2	--	--	--	2
SB11	--	--	--	--	--	--	--	--	1	--
SB12	--	--	--	--	--	--	--	--	1	--
SB13	--	--	--	--	--	--	2	--	--	2
SB14	--	--	--	--	--	--	--	1	--	1
SB15	--	--	--	--	--	--	--	1	--	1
SB16	1	--	--	--	1	--	--	--	1	--
SB17	--	--	--	--	--	--	--	--	1	--
SB18	--	1	1	--	--	1	--	--	--	1
TOTALS	2	2	2	1	1	3	4	4	9	11

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

TRAFFIC SIGNAL AND PEDESTRIAN FACES

SIGNAL HEAD NO.	SIGNAL BASE NO.	SPV.0060.83* TRAFFIC SIGNAL FACE 3S 12-INCH BLACK EACH	SPV.0060.84* TRAFFIC SIGNAL FACE 4S 12-INCH BLACK EACH	SPV.0060.85* PEDESTRIAN SIGNAL FACE 16-INCH BLACK EACH
1	SB2	1	--	--
2	SB16	1	--	--
3	SB16	1	--	--
4	SB3	--	1	--
5	SB12	--	1	--
6	SB13	--	1	--
7	SB12	1	--	--
8	SB6	1	--	--
9	SB6	1	--	--
10	SB13	--	1	--
11	SB2	--	1	--
12	SB3	--	1	--
13	SB8	1	--	--
14	SB18	1	--	--
15	SB18	1	--	--
16	SB17	1	--	--
17	SB10	1	--	--
18	SB11	1	--	--
19	SB8	--	1	--
20	SB10	--	1	--
21	SB2	--	--	1
22	SB7	--	--	1
23	SB8	--	--	1
24	SB11	--	--	1
25	SB12	--	--	1
26	SB16	--	--	1
27	SB17	--	--	1
28	SB1	--	--	1
	TOTALS	12	8	8

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

SIGNAL MOUNTING HARDWARE
STH 57 & W SCHROEDER DR

LOCATION	658.5069.65 SIGNAL MOUNTING HARDWARE LS
STH 57 & W SCHROEDER DR	1
TOTAL	1

TRANSPORT AND INSTALL STATE FURNISHED TRAFFIC SIGNAL CABINET
STH 57 & W SCHROEDER DR

LOCATION	SPV.0105.64 TRNSPT & INSTALL STATE FURN TRAFFIC SIGNAL CABINET LS
STH 57 & W SCHROEDER DR	1
TOTAL	1

3

TEMPORARY TRAFFIC SIGNALS
STH 57 & W SCHROEDER DR

LOCATION	661.0200.64 TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS LS	661.0300* GENERATORS DAY	677.0200* INSTALL CAMERA ASSEMBLY EACH
STH 57 & W SCHROEDER DR	1	1	1
TOTALS	1	1	1

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

3

TRANSPORT TRAFFIC SIGNAL AND INTERSECTION LIGHTING MATERIALS
STH 57 & W SCHROEDER DR

LOCATION	SPV.0105.70 TRNSPT TRAFFIC SIGNALS & INTER LIGHTING MATERIALS LS
STH 57 & W SCHROEDER DR	1
TOTAL	1

TRANSPORT AND INSTALL STATE FURNISHED EMERGENCY VEHICLE PREEMPTION (EVP) DETECTOR HEADS
STH 57 & W SCHROEDER DR

LOCATION	SPV.0105.76 TRNSPT & INSTALL STATE FURN EVP HEADS LS
STH 57 & W SCHROEDER DR	1
TOTAL	1

TEMPORARY EMERGENCY VEHICLE PREEMPTION (EVP)
STH 57 & W SCHROEDER DR

LOCATION	SPV.0105.87 TEMPORARY EVP SYSTEM LS
STH 57 & W SCHROEDER DR	1
TOTAL	1

3

SUMMARY OF STATE FURNISHED MATERIALS - FOR INFORMATION ONLY

QUANTITY	UNIT	DESCRIPTION
1	EACH	TRAFFIC SIGNAL CABINET WITH CONTROLLER
1	EACH	POLES TYPE 9
2	EACH	POLES TYPE 10
1	EACH	POLES TYPE 10 SPECIAL
1	EACH	MONOTUBE ARMS 20-FT
2	EACH	MONOTUBE ARMS 30-FT
1	EACH	MONOTUBE ARMS 45-FT
4	EACH	LUMINAIRE ARMS STEEL 15-FT
1	LS	EVP CABINET EQUIPMENT
4	EACH	EVP DETECTOR HEADS (HEADS A, B, C, D)

REMOVING CONCRETE BASES

EXISTING BASE NO.	204.0195* REMOVING CONCRETE BASES EACH
CB1	1
SB1	1
SB2	1
SB3	1
SB4	1
SB5	1
SB6	1
SB7	1
SB8	1
SB9	1
SB10	1
TOTALS	11

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

WISCONSIN
ANTHONY BUBLITZ
44355-6
MILWAUKEE, WI
PROFESSIONAL ENGINEER

6/10/21

REMOVING PULL BOXES

EXISTING PULL BOX NO.	653.0905* REMOVING PULL BOXES EACH
PB1	1
PB2	1
PB3	1
PB4	1
PB5	1
PB6	1
PB7	1
PB8	1
PB9	1
PB10	1
PB11	1
PB12	1
PB13	1
PB14	1
TOTALS	14

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

REMOVE TRAFFIC SIGNALS
STH 57 & DONGES BAY ROAD

LOCATION	204.9105.S.65 REMOVE TRAFFIC SIGNALS LS	204.9105.S.69 REMOVE LOOP DETECTOR WIRE AND LEAD-IN CABLE LS
STH 57 & DONGES BAY ROAD	1	1
TOTALS	1	1

3

3

CONDUIT

FROM	TO	652.0225* CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	652.0235* CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH LF	652.0615* CONDUIT SPECIAL 3-INCH LF
CB1	PB1	--	33	--
PB1	PB2	172	--	--
PB2	PB3	150	--	--
PB1	PB4	--	--	178
PB4	SB2	11	--	--
PB4	PB5	--	76	--
PB5	SB3	5	--	--
PB5	PB6	23	--	--
PB6	PB7	182	--	--
PB7	PB8	130	--	--
PB5	PB9	--	--	112
PB9	SB4	--	6	--
PB9	PB11	16	--	--
PB9	PB10	--	--	50
PB10	SB5	9	--	--
PB9	PB12	--	--	140
PB12	SB6	--	11	--
PB12	PB13	231	--	--
PB13	PB14	150	--	--
PB12	PB15	--	74	--
PB15	SB7	9	--	--
PB15	PB16	13	---	--
PB15	PB17	--	--	102
PB17	PB18	14	--	--
PB17	SB1	--	8	--
PB17	PB19	--	--	78
PB19	SB8	--	15	--
PB19	CB1	--	39	--
	TOTALS	1115	262	660

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

STH 57 & DONGES BAY ROAD

ALL ITEMS ARE CATEGORY 0030 UNLESS OTHERWISE NOTED

3

3

LOOP DETECTOR SCHEDULE

LOOP NUMBER	HOMERUN PB	STATION	LOCATION	SIZE (FT) X (FT)	NO. OF TURNS	PAVEMENT TYPE	SDD INSTALLATION REFERENCE	652.0800* CONDUIT LOOP DETECTOR LF	655.0700* LOOP DETECTOR LEAD IN CABLE LF	655.0800* LOOP DETECTOR WIRE LF
11	PB18	230+15	5.5' RT	6' X 20'	3	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	92	84	196
12	PB18	230+43	5.5' RT	6' X 20'	3	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	71	84	175
21	PB14	235+11	6' LT	6' X 10'	5	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	71	539	199
22	PB13	233+61	6' LT	6' X 6'	5	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	65	389	161
41	PB8	46+36	10' RT	6' X 15'	4	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	50	491	176
42	PB7	47+66	10' RT	6' X 15'	4	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	50	361	176
43	PB6	49+44	14' RT	6' X 20'	3	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	59	179	163
44	PB6	49+72	14' RT	6' X 20'	3	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	59	179	163
45	PB6	49+44	2.5' RT	6' X 20'	3	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	70	179	174
46	PB6	49+72	2.5' RT	6' X 20'	3	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	70	179	174
51	PB11	231+63	9.5' RT	6' X 20'	3	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	83	228	187
52	PB11	231+35	9.5' RT	6' X 20'	3	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	71	228	175
61	PB3	226+73	17' RT	6' X 6'	5	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	43	351	139
62	PB2	228+23	20.5' RT	6' X 6'	4	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	38	201	110
81	PB16	50+69	16' LT	6' X 20'	3	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	63	134	167
82	PB16	50+41	16' LT	6' X 20'	3	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	63	134	167
83	PB16	50+69	5.5' LT	6' X 20'	3	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	73	134	177
84	PB16	50+41	5.5' LT	6' X 20'	3	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	73	134	177
							TOTALS	1164	4208	3056

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

** LOCATION ID TO FRONT CENTER OF DETECTOR LOOP

*** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

3

3

PULL BOXES STEEL

PULL BOX NO.	STATION	LOCATION	653.0135* PULL BOXES STEEL 24X36-INCH EACH	653.01400* PULL BOXES STEEL 24X42-INCH EACH
PB1	229+95	43' RT	--	1
PB2	228+23	38' RT	1	--
PB3	226+73	39' RT	1	--
PB4	230+46	30' LT	--	1
PB5	230+81	40' LT	--	1
PB6	49+48	23' RT	1	--
PB7	47+66	25' RT	1	--
PB8	46+36	25' RT	1	--
PB9	231+36	27' LT	--	1
PB10	231+74	59' LT	1	--
PB11	231+52	22' LT	1	--
PB12	231+22	42' RT	--	1
PB13	233+53	37' RT	1	--
PB14	235+03	36' RT	1	--
PB15	50+52	29' LT	--	1
PB16	50+65	29' LT	1	--
PB17	230+45	45' RT	--	1
PB18	230+43	37' RT	1	--
PB19	230+09	58' RT	--	1
		TOTALS	11	8

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

CONCRETE BASES

BASE NO.	STATION	LOCATION	654.0101* CONCRETE BASES TYPE 1 EACH	654.0102* CONCRETE BASES TYPE 2 EACH	654.0110* CONCRETE BASES TYPE 10 EACH	654.0120* CONCRETE BASES TYPE 10-SPECIAL EACH	654.0217* CONCRETE CONTROL CABINET BASES TYPE 9 SPECIAL EACH
CB1	229+96	54' RT	--	--	--	--	1
SB1	230+35	36' RT	--	--	--	1	--
SB2	230+57	29' LT	--	1	--	--	--
SB3	230+86	42' LT	1	--	--	--	--
SB4	231+41	23' LT	--	--	1	--	--
SB5	231+77	50' LT	--	1	--	--	--
SB6	231+31	36' RT	--	--	1	--	--
SB7	230+99	52' RT	1	--	--	--	--
SB8	230+19	68' RT	--	--	1	--	--
		TOTALS	2	2	3	1	1

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

UNDERGROUND TRAFFIC SIGNAL CABLE NO. 14

FROM	TO	655.0240* CABLE TRAFFIC SIGNAL 7-14 AWG LF	655.0260* CABLE TRAFFIC SIGNAL 12-14 AWG LF	655.0270 CABLE TRAFFIC SIGNAL 15-14 AWG LF
CB1	SB1	--	--	99
CB1	SB2	150	--	--
CB1	SB3	--	198	--
CB1	SB4	--	--	271
CB1	SB6	--	222	--
CB1	SB7	--	167	--
CB1	SB8	51	--	--
	TOTALS	201	587	370

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ABOVE GROUND TRAFFIC SIGNAL CABLE NO. 14

FROM	TO	655.0230* CABLE TRAFFIC SIGNAL 5-14 AWG LF	655.0240* CABLE TRAFFIC SIGNAL 7-14 AWG LF
SB1	HEAD 1	19	--
SB1	HEAD 8	67	--
SB1	HEAD 9	--	52
SB1	HEAD 10	--	22
SB2	HEAD 7	28	--
SB3	HEAD 11	19	--
SB3	HEAD 16	19	--
SB4	HEAD 5	--	22
SB4	HEAD 6	19	--
SB4	HEAD 15	43	--
SB6	HEAD 2	19	--
SB6	HEAD 3	41	--
SB6	HEAD 4	--	54
SB7	HEAD 13	19	--
SB7	HEAD 14	19	--
SB8	HEAD 12	54	--
	TOTALS	366	150

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

STH 57 & DONGES BAY ROAD

ALL ITEMS ARE CATEGORY 0030 UNLESS OTHERWISE NOTED

3

ELECTRICAL WIRE TRAFFIC SIGNALS

FROM	TO	655.0515* ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG LF
CB1	SB2	150
SB2	SB3	86
SB3	SB4	99
SB4	SB5	97
SB5	SB6	188
SB6	SB7	89
SB7	SB1	100
SB1	SB8	94
SB8	CB1	51
PB1	SB2	132
PB4	SB2	27
PB5	SB3	21
PB9	SB4	22
PB10	SB5	25
PB12	SB6	27
PB15	SB7	25
PB17	SB1	24
PB19	SB8	31
	TOTALS	1288

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

LIGHTING WIRE

FROM	TO	655.0320* CABLE TYPE UF 2-10 AWG GROUNDED LF	655.0610* ELECTRICAL WIRE LIGHTING 12 AWG LF
CB1	SB1	99	--
SB1	LUMIN (1)	--	144
		--	--
CB1	SB8	51	--
SB8	LUMIN (1)	--	144
		--	--
SB1	SB6	155	--
SB6	LUMIN (1)	--	144
		--	--
SB6	SB5	188	--
SB5	LUMIN (1)	--	117
	TOTALS	493	549

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

TRAFFIC SIGNAL EVP DETECTOR CABLE

FROM	TO	655.0900* TRAFFIC SIGNAL EVP DETECTOR CABLE LF
CB1	SB1 (HEAD A)	166
CB1	SB4 (HEAD D)	293
CB1	SB6 (HEAD B)	263
CB1	SB8 (HEAD C)	105
	TOTALS	827

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ELECTRICAL SERVICE METER BREAKER PEDESTAL
STH 57 & DONGES BAY ROAD

BASE NO.	656.0200.65 ELECTRICAL SERVICE METER BREAKER PEDESTAL LS
CB1	1
TOTALS	1

*** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

CAST BASES, POLES, STANDARDS, MONOTUBE ARMS, LUMINAIRES

SIGNAL BASE NO.	657.0100 PEDESTAL BASES EACH	657.0255 TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE EACH	657.0420 TRAFFIC SIGNAL STANDARDS ALUMINUM 13-FT EACH	657.0305 POLES TYPE 2 EACH	657.0322 POLES TYPE 5 - ALUMINUM EACH	SPV.0060.72* INSTALL POLES TYPE 9 EACH	SPV.0060.74* INSTALL POLES TYPE 10 EACH	SPV.0060.75* INSTALL POLES TYPE 10-SPECIAL EACH	SPV.0060.76* INSTALL MONOTUBE ARMS 20-FT EACH	SPV.0060.78* INSTALL MONOTUBE ARMS 30-FT EACH	SPV.0060.81* INSTALL MONOTUBE ARMS 45-FT EACH	SPV.0060.82* INSTALL LUMINAIRE ARMS STEEL 15-FT EACH	657.0610 LUMINAIRE ARMS SINGLE MEMBER 4 1/2-INCH CLAMP 6-FT EACH	659.1125 LUMINAIRES UTILITY LED C EACH
SB1	--	--	--	--	--	--	--	1	--	--	1	1	--	1
SB2	--	1	--	1	--	--	--	--	--	--	--	--	--	--
SB3	1	--	1	--	--	--	--	--	--	--	--	--	--	--
SB4	--	--	--	--	--	1	--	--	1	--	--	--	--	--
SB5	--	1	--	--	1	--	--	--	--	--	--	--	1	1
SB6	--	--	--	--	--	--	1	--	--	1	--	1	--	1
SB7	1	--	1	--	--	--	--	--	--	--	--	--	--	--
SB8	--	--	--	--	--	--	1	--	--	1	--	1	--	1
TOTAL:	2	2	2	1	1	1	2	1	1	2	1	3	1	4

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

TRAFFIC SIGNAL FACES

SIGNAL HEAD NO.	SIGNAL BASE NO.	658.0173 TRAFFIC SIGNAL FACE 3S 12-INCH EACH	658.0174 TRAFFIC SIGNAL FACE 4S 12-INCH EACH
1	SB1	1	--
2	SB6	1	--
3	SB6	1	--
4	SB6	--	1
5	SB4	--	1
6	SB4	1	--
7	SB2	1	--
8	SB1	1	--
9	SB1	--	1
10	SB1	--	1
11	SB3	1	--
12	SB8	1	--
13	SB7	1	--
14	SB7	1	--
15	SB4	1	--
16	SB3	1	--
	TOTAL	12	4

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

SIGNAL MOUNTING HARDWARE
STH 57 & DONGES BAY ROAD

LOCATION	658.5069.66 SIGNAL MOUNTING HARDWARE LS
STH 57 & DONGES BAY ROAD	1
TOTALS	1

TRANSPORT AND INSTALL STATE FURNISHED TRAFFIC SIGNAL CABINET
STH 57 & DONGES BAY ROAD

LOCATION	SPV.0105.65 TRNSPT & INSTALL STATE FURN TRAFFIC SIGNAL CABINET LS
STH 57 & DONGES BAY ROAD	1
TOTALS	1

TRANSPORT AND INSTALL SIGNAL AND INTERSECTION LIGHTING MATERIALS
STH 57 & DONGES BAY ROAD

LOCATION	SPV.0105.71 TRNSPT TRAFFIC SIGNALS & INTER LIGHTING MATERIALS LS
STH 57 & DONGES BAY ROAD	1
TOTALS	1

TRANSPORT AND INSTALL STATE FURNISHED EMERGENCY VEHICLE PREEMPTION (EVP) DETECTOR HEADS
STH 57 & DONGES BAY ROAD

LOCATION	SPV.0105.77 TRNSPT & INSTALL STATE FURN EVP HEADS LS
STH 57 & DONGES BAY ROAD	1
TOTALS	1

SUMMARY OF STATE FURNISHED MATERIALS - FOR INFORMATION ONLY

QUANTITY	UNIT	DESCRIPTION
4	EACH	ETHERNET SWITCH
1	EACH	CELLULAR MODEM
1	EACH	RADIO INTERCONNECT ANTENNA, 5.8GHz
8335	LF	FIBER OPTIC CABLE OUTDOOR PLANT 36-CT
4	EACH	PATCH PANEL WITH FIBER OPTIC CABLE PIGTAIL 8-CT
1	EACH	CAMERA ASSEMBLY
8	EACH	SFP

CONDUIT

FROM	TO	652.0225* CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	652.0235* CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH LF	652.0615* CONDUIT SPECIAL 3-INCH LF	671.0122 CONDUIT HDPE 2-DUCT 2-INCH LF	671.0222 CONDUIT HDPE DIRECTIONAL BORE 2-DUCT 2-INCH LF
ICPB484	CV486	--	--	--	224	--
CV486	ICPB486	--	66	--	--	--
ICPB486	CB1 (S40-1473)	80	--	--	--	--
CV486	ICPB488	--	--	--	242	--
ICPB488	CV496	--	--	--	841	--
CV496	ICPB496	--	64	--	--	--
ICPB496	CB1 (S40-1163)	45	--	--	--	--
CV496	CV500	--	--	--	345	--
CV500	ICPB575	--	--	--	37	--
ICPB575	CV504	--	--	--	421	--
CV504	EXT1	4	--	--	--	--
ICPB504	EXT2	--	--	--	262	--
CV500	ICPB500	--	--	--	78	--
ICPB500	ICPB124	--	--	--	277	--
ICPB124	ICPB127	--	--	--	314	--
ICPB127	ICPB130	--	--	--	306	--
ICPB130	ICPB133	--	--	--	251	--
ICPB133	ICPB136	--	--	--	374	--
ICPB136	CV138	--	--	--	--	146
CV138	ICPB138	--	--	120	--	--
ICPB138	CB1 (S40-1176)	21	--	--	--	--
CV138	ICPB140	--	--	--	232	--
ICPB140	ICPB143	--	--	--	292	--
ICPB143	ICPB145	--	--	--	253	--
ICPB145	ICPB146	--	--	--	--	68
ICPB146	ICPB149	--	--	--	270	--
ICPB149	CV150	--	--	--	155	--
CV150	CB1 (S40-1227)	13	--	--	--	--
CV150	ICPB151	--	--	--	--	76
	TOTALS	163	130	120	5174	290

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

STH 57/STH 100

ALL ITEMS ARE CATEGORY 0030 UNLESS OTHERWISE NOTED

REMOVING COMMUNICATION VAULT

EXISTING VAULT NO.	204.9060.S.61 REMOVING COMMUNICATION VAULT EACH
CV15	1
CV16	1
TOTAL	2

REMOVING PULL BOXES

EXISTING PULL BOX NO.	653.0905* REMOVING PULL BOXES EACH
PB-147	1
PB-148	1
PB-149	1
PB-150	1
PB-151	1
PB-152	1
PB-154	1
PB-155	1
PB-156	1
PB-157	1
KDPB-33	1
ICPB132	1
TOTAL	12

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

PULL BOXES AND COMMUNICATION VAULTS

STRUCTURE NO.	STATION	LOCATION	653.0140* PULL BOXES STEEL 24X42-INCH EACH	673.0105 COMMUNICATION VAULT TYPE 1 EACH
ICPB478	477+76.9	09.1' RT	1	--
ICPB480	480+06.9	02.7' LT	1	--
ICPB481	480+90.8	05.1' RT	1	--
ICPB482	482+60.1	01.9' RT	1	--
ICPB484	483+37.8	01.1' LT	1	--
CV486	485+60.0	12.0' LT	--	1
ICPB486	485+60.0	78.5' LT	1	--
ICPB488	488+00.5	12.0' RT	1	--
CV496	496+40.0	26.1' LT	--	1
ICPB496	496+40.0	90.0' LT	1	--
CV500	499+83.8	26.2' LT	--	1
ICPB575	499+89.3	10.1' RT	1	--
CV504	504+10.4	09.4' LT	--	1
ICPB504	504+12.1	61.5' RT	1	--
ICPB500	499+75.0	103.5' LT	1	--
ICPB124	124+00.0	78.6' RT	1	--
ICPB127	127+00.0	68.7' RT	1	--
ICPB130	130+00.0	65.0' RT	1	--
ICPB133	132+50.0	65.0' RT	1	--
ICPB136	136+20.0	65.0' RT	1	--
CV138	137+65.0	65.0' RT	--	1
ICPB138	137+65.0	55.0' LT	1	--
ICPB140	140+00.0	52.0' RT	1	--
ICPB143	143+00.0	52.0' RT	1	--
ICPB145	145+00.0	52.0' RT	1	--
ICPB146	146+30.0	52.0' RT	1	--
ICPB149	149+00.0	55.5' RT	1	--
CV150	150+45.0	75.8' RT	--	1
ICPB151	151+21.0	76.0' RT	1	--
		TOTALS	23	6

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

*** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

3

COMMUNICATION

LOCATION	670.0100.61 FIELD SYSTEM INTEGRATOR LS	670.0200.61 ITS DOCUMENTATION LS	678.0500.61 COMMUNICATION SYSTEM TESTING TRAFFIC SIGNALS LS
STH 100 AND STH 57 TRAFFIC SIGNALS	1	1	1
TOTALS	1	1	1

INSTALL CAMERA ASSEMBLY
STH 57 & STH 100

LOCATION	677.0200* INSTALL CAMERA ASSEMBLY EACH
CCTV-40-XXXX	1
TOTAL	1

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

REMOVE CABLE

FROM	TO	674.0300 REMOVE CABLE LF
CV14	CV17	3658
	TOTALS	3658

3

3

FIBER OPTIC CABLE AND TRACER CABLE

FROM	TO	655.0510 ELECTRICAL WIRE TRAFFIC SIGNALS 12 AWG LF	678.0036 INSTALL FIBER OPTIC CABLE OUTDOOR PLANT 36-CT LF
CV14	PB-145	126	175
PB-145	PB-146	70	84
PB-146	ICPB478	182	196
ICPB478	ICPB480	246	260
ICPB480	ICPB481	100	114
ICPB481	ICPB482	185	199
ICPB482	ICPB484	94	108
ICPB484	CV486	464	513
CV486	ICPB486	82	--
ICPB486	CB1 (S40-1473)	95	--
CV486	ICPB488	258	307
ICPB488	CV496	857	906
CV496	ICPB496	80	--
ICPB496	CB1 (S40-1163)	60	--
CV496	CV500	706	790
CV500	ICPB575	53	102
ICPB575	CV504	437	486
CV504	ICPB504	87	136
ICPB504	ICPB134	304	318
ICPB134	CV17	74	123
CV500	ICPB500	129	178
ICPB500	ICPB124	293	307
ICPB124	ICPB127	330	344
ICPB127	ICPB130	322	336
ICPB130	ICPB133	267	281
ICPB133	ICPB136	390	404
ICPB136	CV138	162	211
CV138	ICPB138	136	--
ICPB138	CB1 (S40-1176)	36	--
CV138	ICPB140	248	297
ICPB140	ICPB143	308	322
ICPB143	ICPB145	269	283
ICPB145	ICPB146	84	98
ICPB146	ICPB149	286	300
ICPB149	CV150	171	220
CV150	CB1 (S40-1227)	28	--
CV150	ICPB151	92	--
	TOTAL	8111	8398

3

FIBER OPTIC

LOCATION	678.0200 FIBER OPTIC SPLICE ENCLOSURE EACH	678.0300 FIBER OPTIC SPLICE EACH
CV14	--	36
CV486	1	4
CV496	1	40
CV17	--	4
CV138	1	4
CV150	1	4
TOTAL	4	92

INSTALL FIBER OPTIC

LOCATION	678.0600 INSTALL ETHERNET SWITCHES EACH	678.0700 INSTALL WIRELESS ANTENNAS EACH
CB1 (S40-1473)	1	--
CB1 (S40-1163)	1	--
CB1 (S40-1176)	1	--
CB1 (S40-1227)	1	--
CB1 (S40-1193)	--	1
TOTAL	4	1

3

TRNSPRT AND INSTALL S-F FO CABLE PIGTAIL 8-CT

LOCATION	*** SPV.0105.79 LS
STH 100 & N DEERBROOK TRL	1
TOTAL	1

*** PAY ITEM INCLUDES INSTALLATION OF BOTH CONTRACTOR FURNISHED AND STATE FURNISHED MATERIALS

SUMMARY OF STATE FURNISHED MATERIALS

QUANTITY	UNIT	DESCRIPTION
253	LF	PATCH PANEL WITH FIBER OPTIC CABLE PIGTAIL 8-CT

SUMMARY OF CONTRACTOR FURNISHED MATERIALS

QUANTITY	UNIT	DESCRIPTION
1	EACH	ST-ST SINGLE MODE FIBER OPTIC JUMPER 2-CT
2	EACH	CAT-5E CABLE 1-METER

3

3

TRNSPRT AND INSTALL S-F FO CABLE PIGTAIL 8-CT

LOCATION	*** SPV.0105.80 LS
STH 57 & STH 100	1
TOTAL	1

*** PAY ITEM INCLUDES INSTALLATION OF BOTH CONTRACTOR FURNISHED AND STATE FURNISHED MATERIALS

SUMMARY OF STATE FURNISHED MATERIALS

QUANTITY	UNIT	DESCRIPTION
216	LF	PATCH PANEL WITH FIBER OPTIC CABLE PIGTAIL 8-CT

SUMMARY OF CONTRACTOR FURNISHED MATERIALS

QUANTITY	UNIT	DESCRIPTION
2	EACH	ST-ST SINGLE MODE FIBER OPTIC JUMPER 2-CT
2	EACH	CAT-5E CABLE 1-METER

TRNSPRT AND INSTALL S-F FO CABLE PIGTAIL 8-CT

LOCATION	*** SPV.0105.81 LS
STH 57 & N DEERWOOD DR	1
TOTAL	1

*** PAY ITEM INCLUDES INSTALLATION OF BOTH CONTRACTOR FURNISHED AND STATE FURNISHED MATERIALS

SUMMARY OF STATE FURNISHED MATERIALS

QUANTITY	UNIT	DESCRIPTION
248	LF	PATCH PANEL WITH FIBER OPTIC CABLE PIGTAIL 8-CT

SUMMARY OF CONTRACTOR FURNISHED MATERIALS

QUANTITY	UNIT	DESCRIPTION
1	EACH	ST-ST SINGLE MODE FIBER OPTIC JUMPER 2-CT
2	EACH	CAT-5E CABLE 1-METER

3

3

TRNSPRT AND INSTALL S-F FO CABLE PIGTAIL 8-CT

LOCATION	*** SPV.0105.82 LS
STH 57 & W SCHROEDER DR	1
TOTAL	1

*** PAY ITEM INCLUDES INSTALLATION OF BOTH CONTRACTOR FURNISHED AND STATE FURNISHED MATERIALS

SUMMARY OF STATE FURNISHED MATERIALS

QUANTITY	UNIT	DESCRIPTION
120	LF	PATCH PANEL WITH FIBER OPTIC CABLE PIGTAIL 8-CT

SUMMARY OF CONTRACTOR FURNISHED MATERIALS

QUANTITY	UNIT	DESCRIPTION
1	EACH	ST-ST SINGLE MODE FIBER OPTIC JUMPER 2-CT
2	EACH	CAT-5E CABLE 1-METER

CONVENTIONAL SYMBOLS

SECTION LINE
QUARTER LINE
SIXTEENTH LINE
NEW REFERENCE LINE
NEW R/W LINE
EXISTING R/W OR HE LINE
PROPERTY LINE (P.L.)
LOT, TIE & OTHER MINOR LINES
SLOPE INTERCEPT
CORPORATE LIMITS
UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC) — W (TYPE)
NEW R/W (FEE OR HE) (HATCHING VARIES BY OWNER)
TEMPORARY LIMITED EASEMENT AREA
EASEMENT AREA (PERMANENT LIMITED OR RESTRICTED DEVELOPMENT)
TRANSMISSION STRUCTURES
BUILDING — TO BE REMOVED
BRIDGE

SECTION CORNER SYMBOL (1 18 23 24 16 15 9)
SECTION CORNER MONUMENT
GEODETIC SURVEY MONUMENT
SIXTEENTH CORNER MONUMENT
SIGN — SIGN
OFF-PREMISE SIGN — I-25 — SIGN

R/W MONUMENT (TO BE SET)
NON-MONUMENTED R/W POINT
FOUND IRON PIN (1-INCH UNLESS NOTED) IP

	COMPENSABLE	NON-COMPENSABLE
ELECTRIC POLE	■	□
TELEPHONE POLE	●	⌀
PEDESTAL (LABEL TYPE) (TV, TEL, ELEC, ETC.)	◆	◇

ACCESS RESTRICTED BY ACQUISITION
NO ACCESS (BY STATUTORY AUTHORITY)
ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL)
NO ACCESS (NEW HIGHWAY)
PARCEL NUMBER (25)
UTILITY NUMBER (40)
PARALLEL OFFSETS

CONVENTIONAL ABBREVIATIONS

ACCESS RIGHTS	AR	POINT OF INTERSECTION	PI
ACRES	AC	PROPERTY LINE	PL
AHEAD	AH	RECORDED AS	(100')
ALUMINUM	ALUM	REEL / IMAGE	R/I
AND OTHERS	ET AL	REFERENCE LINE	R/L
BACK	BK	REMAINING	REM
BLOCK	BLK	RESTICTIVE DEVELOPMENT EASEMENT	RDE
CENTERLINE	C/L	RIGHT	RT
CERTIFIED SURVEY MAP	CSM	RIGHT OF WAY	R/W
CONCRETE	CONC	SECTION	SEC
COUNTY	CO	SEPTIC VENT	SEPV
COUNTY TRUNK HIGHWAY	CTH	SQUARE FEET	SF
DISTANCE	DIST	STATE TRUNK HIGHWAY	STH
CORNER	COR	STATION	STA
DOCUMENT NUMBER	DOC	TELEPHONE PEDESTAL	TP
EASEMENT	EASE	TEMPORARY LIMITED EASEMENT	TLE
EXISTING	EX	TRANSPORTATION PROJECT PLAT	TPP
GAS VALVE	GV	UNITED STATES HIGHWAY	USH
GRID NORTH	GN	VOLUME	V
HIGHWAY EASEMENT	HE		
IDENTIFICATION	ID		
LAND CONTRACT	LC		
LEFT	LT		
MONUMENT	MON		
NATIONAL GEODETIC SURVEY	NGS		
NUMBER	NO		
OUTLOT	OL		
PAGE	P		
POINT OF TANGENCY	PT		
PERMANENT LIMITED EASEMENT	PLE		
POINT OF BEGINNING	POB		
POINT OF CURVATURE	PC		
POINT OF COMPOUND CURVE	PCC		

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE	Δ/DELTA
LENGTH OF CURVE	L
TANGENT	T
DIRECTION AHEAD	DA
DIRECTION BACK	DB

CONVENTIONAL UTILITY SYMBOLS

WATER	W
GAS	G
TELEPHONE	T
OVERHEAD TRANSMISSION LINES	OH
ELECTRIC	E
CABLE TELEVISION	TV
FIBER OPTIC	FO
SANITARY SEWER	SAN
STORM SEWER	SS

NOTES:

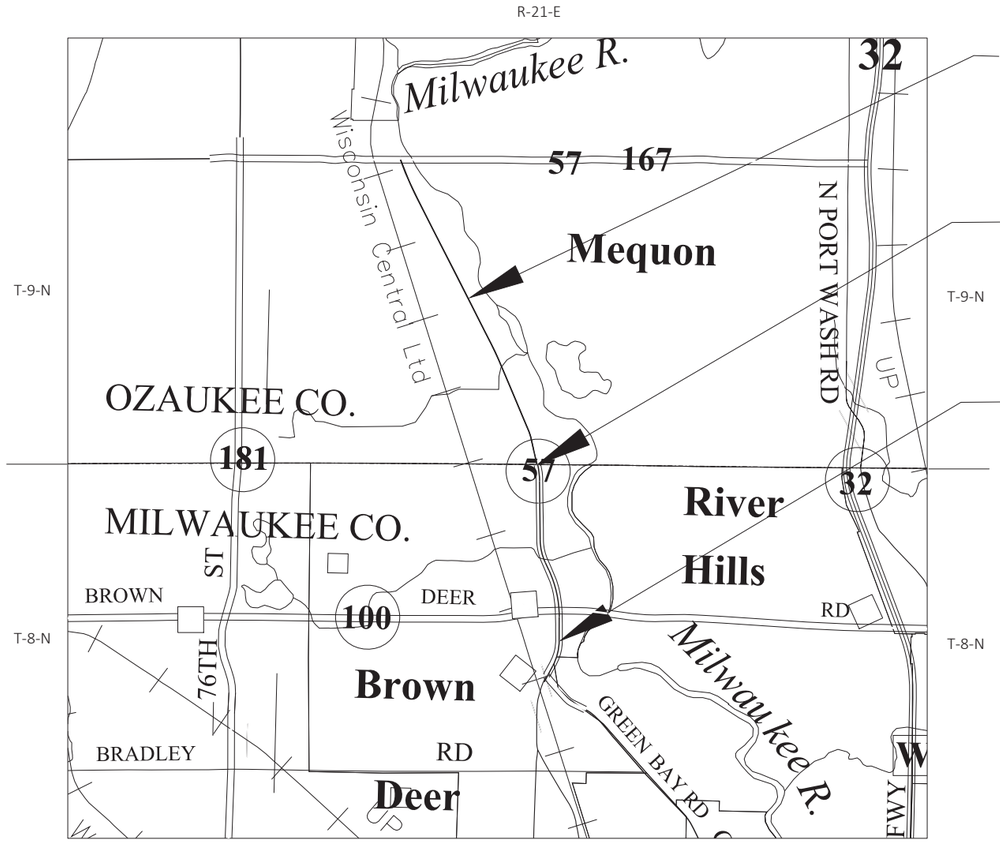
POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), MILWAUKEE & OZAUKEE COUNTY, NAD 83 (2011) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT OF WAY MONUMENTS ARE TYPE 2 MONUMENTS (TYPICALLY 3/4"X24" REBAR) AND WILL BE PLACED PRIOR TO COMPLETION OF THE PROJECT.

RIGHT OF WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS OF PUBLIC RECORD".

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY LINES, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

THE HIGH ACCURACY REFERENCE NETWORK (HARN) POINTS USED ON PROJECT WERE:
BROWN DEER W GPS
WAUWATOSA
MEQUON
HOMESTEAD
GLENDALE GPS



END RELOCATION ORDER
STA. 175+00.00
645.40' SOUTH OF AND 65.93' WEST OF THE S 1/4 CORNER OF SECTION 26, T9N, R21E.

END SEGMENT 1
STA. 172+97.23
START SEGMENT 2
STA. 110+05.57

BEGIN RELOCATION ORDER
STA. 104+00.00
1392.05' SOUTH OF AND 667.51' EAST OF THE SE 1/4 CORNER OF SECTION 2, T8N, R21E.

N

LAYOUT
SCALE 0 — 1MI

TOTAL NET LENGTH OF CENTERLINE = 2.536MI

R/W PROJECT NUMBER 2270-04-20	SHEET NUMBER	TOTAL SHEETS
	4.01	8

PLAT OF RIGHT OF WAY REQUIRED FOR
STH 57 - VIL BROWN DEER & CITY MEQUON
TEUTONIA AVENUE TO MEQUON ROAD
STH 57 MILWAUKEE & OZAUKEE COUNTY

CONSTRUCTION PROJECT NUMBER 2270-04-70

ORIGINAL PLANS PREPARED BY
KAPUR & ASSOCIATES CONSULTING ENGINEERS
414.751.7200

WISCONSIN GARY D. SCHNEIDER S-1297 West Bend Wisconsin LAND SURVEYOR

AUGUST 7, 2019 (Date) (Signature)

REVISION DATE
02/22/2021
05/12/2021

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED FOR THE DEPARTMENT
DATE: _____ (Signature)

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\SURVEY\DWG\RW-PLAT\RW_PLAT-2270-04-00_TITLE.DWG
LAYOUT NAME - RW_PLAT-2270-04-00_TITLE - TITLE 4.01
PLOT DATE : 5/7/2021 11:07 AM PLOT BY : BRIAN DODGE, PS PLOT NAME :

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	SHEET NUMBER	*OWNER	INTEREST REQUIRED	TOTAL ACRES	R/W ACRE(S) REQUIRED			TOTAL ACRES REMAINING	P.L.E. ACRES	T.L.E. ACRES	PARCEL NUMBER
					NEW	EXISTING	TOTAL				
1	4.05	WISCONSIN CENTRAL LTD	HE	Vast	0.348		0.348	Vast			1
2	4.05	WHEATON FRANCISCAN HEALTHCARE-ST. JOSEPH, INC	TLE	3.275				3.275		0.111	2
3	4.05	PHOENIX BROWN DEER LLC	TLE	1.353				1.353		0.071	3
4	4.06	FIRST BANK BROWN DEER SYSTEMS PROPERTY MANAGEMENT	TLE	2.630				2.630		0.080	4
5	4.06	BRE DDR BROWN DEER CENTER, LLC	TLE	23.318				23.318		0.060	5
6	4.06	GUARANTY BANK, SSB	TLE	5.285				5.285		0.222	6
7	4.06	DIVERSE INTERESTS	TLE	2.012				2.012		0.164	7
8	4.06	WELCOME MART, LLC	TLE	1.670				1.670		0.208	8
9	4.04	VILLAGE OF BROWN DEER	FEE, TLE	0.605	0.013		0.013	0.592		0.094	9
11	4.07	DAVID HORTON FOODS, LLC	FEE	1.286	0.003		0.003	1.283			11
12	4.07	ARK HOTEL, LLC	FEE	0.183	0.005		0.005	0.178			12
13	4.08	SUBURBAN MOTORS OF GRAFTON, INC.	FEE, TLE	1.010	0.035		0.035	0.975		0.029	13
14	4.08	PKH PROPERTIES, LLC	FEE, TLE	1.441	0.047		0.047	1.394		0.039	14
16	4.08	PALINA AUCHVNNIKAVA	FEE, TLE	1.001	0.029		0.029	0.972		0.024	16
17(2)	4.08	BORO BUZDUM	TLE	2.260				2.260		0.025	17(2)

UTILITY SCHEDULE			
NUMBER	SHEET NUMBER	OWNER	INTEREST REQUIRED
300	4.05-4.08	WE ENERGIES ELECTRIC	RELEASE OF RIGHTS
301(2)	4.05, 4.06	AT&T WISCONSIN	RELEASE OF RIGHTS
302	4.06	VILLAGE OF BROWN DEER - WATER	RELEASE OF RIGHTS
303	4.07	MMSD	RELEASE OF RIGHTS
304		ELIMINATED	
305	4.08	CITY OF MEQUON	RELEASE OF RIGHTS
306(2)	4.06	WE ENERGIES GAS	RELEASE OF RIGHTS

REVISION DATE
02/22/2021
05/12/2021

DATE: AUGUST 7, 2019

HWY: STH 57
COUNTY: MILWAUKEE & OZAUKEE

STATE R/W PROJECT NUMBER 2270-04-20
CONSTRUCTION PROJECT NUMBER 2270-04-70

PLAT SHEET 4.02
PS&E SHEET 866

E

FILE NAME : RW_PLAT-2270-04-00_LANDSCH_LAYOUT.DWG
LAYOUT NAME - LandSch 4.02

PLOT DATE : 5/7/2021 11:07 AM PLOT BY : BRIAN DODGE, PS PLOT NAME :

4

4

T-8-N

T-9-N

R-21-E

11

12

2

35

1

SW-NE

SE-NE

NW-NE

NE-NE

SW-SE

NW-SE

NE-SE

SE-SE

SW-NW

NW-NW

SE-NW

NE-NW

SW-SW

NW-SW

SE-SW

NE-SW

VILLAGE OF BROWN DEER

MILWAUKEE COUNTY

OZAUKEE COUNTY

CITY OF MEQUON

VILLAGE OF RIVER HILLS

W. COUNTY LINE RD.

W. HIAWATHA DR.

W. SCHROEDER DR.

W. RIVERS EDGE CIRCLE

W. DONGES BAY RD.

W. BAYBERRY PKWY

DEERBROOK TRAIL

DEERWOOD DR.

DEERWOOD DRIVE

N. GREEN BAY RD. / STH 57

W. BROWN DEER RD. / HWY 100

N. CEDARBURG RD.

N. CEDARBURG RD. / STH-57

WISCONSIN CENTRAL LTD

MILWAUKEE RIVER

4.05

4.04

4.06

4.07

4.08

BEGIN RELOCATION ORDER
STA. 104+00.00

END SEGMENT 1
STA. 172+97.23
N 355648.23
E 591272.90

START SEGMENT 2
STA. 110+05.57
N 355644.44
E 591246.09

END RELOCATION ORDER
STA. 175+00.00

REVISION DATE 02/22/2021 05/12/2021	DATE: AUGUST 7, 2019	SCALE, FEET 0 500 100	HWY: STH 57	STATE R/W PROJECT NUMBER 2270-04-20	PLAT SHEET 4.03	
	GRID FACTOR N/A		COUNTY: MILWAUKEE & OZAUKEE	CONSTRUCTION PROJECT NUMBER 2270-04-70	PS&E SHEET 867	E

FILE NAME : RW_PLAT-2270-04-00_LANDSCH_LAYOUT.DWG
LAYOUT NAME - Layout 4.03

PLOT DATE : 5/7/2021 11:07 AM PLOT BY : BRIAN DODGE, PS PLOT NAME : PLOT SCALE : 1 IN:500 FT

ROAD NAME	BASIS OF EXISTING R/W AND ACCESS	YEAR	WIDTH
STH 100	PROJECT ID FO2-2(6) DOC. 3938758	1962	VARIES
STH 100	PROJECT ID TO34-1(13) DOC. 3938758 DOC. 4532801 DOC. 4541483 DOC. 5021716	1968	VARIES
BROWN DEER BUSINESS PARK	SUBD. PLAT	1977	

Curve Table				
Curve #	Length	Radius	Chord	Chord Direction
C1	317.16	1996.86	316.82	N81°04'16"E
C2	311.37	1984.86	311.05	S81°00'54"W
C3	110.05	1834.86	110.04	N78°14'21"E
C8	33.13	4167.19	33.13	N77°36'52"E
C9	33.11	4192.20	33.11	N77°07'53"E
C10	110.08	1820.86	110.06	S78°15'10"W

COURSE TABLE

COURSE	BEARING	DISTANCE
HE400-HE401*	N77°35'48"E	33.13'
HE401-HE402	S17°28'42"E	25.10'
HE402-HE403*	N77°07'53"E	33.11'
ERW303 - TLE502	N13°28'38"W	12.00'
TLE502 - TLE503	N76°31'16"E	87.30'
TLE503 - TLE504*	N81°04'16"E	316.82'
TLE504 - ERW306	S01°31'44"E	10.79'
ERW306 - ERW305	S65°27'56"W	3.57'
ERW305 - ERW304*	S81°00'54"W	311.05'
ERW304 - ERW303	S76°31'16"W	87.30'
TLE505 - ERW308	N76°31'16"E	112.38'
ERW308 - TLE509*	N78°14'21"E	110.04'
TLE509 - TLE508	S13°34'38"E	14.03'
TLE508 - TLE507*	S78°15'10"W	110.06'
TLE507 - TLE506	S76°31'16"W	112.38'
TLE506 - TLE505	N13°28'41"W	14.00'

* INDICATES LC AND LCB

VILLAGE

OF

BROWN DEER

SW-SE

NW-NE

NE-NE

SE-SE

821036
CONC. MON.
W/ BRASS CAP
N = 350268.871
E = 588635.294
STA. 464+08.14

821024
MAG NAIL
N = 352913.270
E = 591351.803

821037
CONC. MON.
W/ BRASS CAP
N = 350267.858
E = 591306.791

821050
CONC. MON.
W/ BRASS CAP
N = 347615.997
E = 591262.256

PC: 473+39.04
N 350268.32
E 589566.19

PT: 483+51.60
N 350386.88
E 590569.45

PC: 488+14.65
N 350494.81
E 591019.75

PI: 490+43.06
N 350548.055
E 591241.874

PI: 478+47.67
N 350268.325
E 590074.830

PI STA = 478+47.67
Y = 350268.325
X = 590074.830
DELTA = 13°30'03"
D = 1°20'00"
T = 508.63'
L = 1012.56'
R = 4297.20'
PC STA = 473+39.04
Y = 350268.518
X = 589566.195
PT STA = 483+51.60
Y = 350386.882
X = 590569.454
BK = S89°58'42"E
AH = N76°31'16"E

PI STA = 490+43.06
Y = 350548.055
X = 591241.874
DELTA = 13°38'24"
D = 3°00'00"
T = 228.41'
L = 454.67'
R = 1909.86'
PC STA = 488+14.65
Y = 350494.815
X = 591019.752
PT STA = 492+69.32
Y = 350547.414
X = 591470.286
BK = N76°31'16"E
AH = S89°50'20"E

POINT	STATION	OFFSET	Y	X
HE400	482+52.51	-130.00	350491.984	590445.463
HE405	482+73.76	103.70	350268.158	590515.942
HE402	482+88.86	-105.00	350475.159	590485.358
HE401	482+86.68	-130.01	350499.100	590477.819
HE403	483+22.79	-105.00	350482.532	590517.634
HE404	483+39.51	119.15	350268.132	590585.145
TLE505	487+02.27	75.00	350395.686	590927.950
TLE506	487+02.27	89.00	350382.072	590931.213
TLE502	487+27.35	-87.00	350559.069	590914.577
ERW303	487+27.35	-75.00	350547.400	590917.374
TLE503	488+14.65	-87.00	350579.418	590999.474
ERW304	488+14.65	-75.00	350567.749	591002.271
ERW308	488+14.65	75.00	350421.881	591037.234
TLE507	488+14.65	89.00	350408.266	591040.497
TLE509	489+29.20	75.00	350444.309	591144.961
TLE508	489+30.11	89.00	350430.674	591148.254
ERW309	491+02.62	75.00	350465.879	591310.110
ERW305	491+14.25	-75.00	350616.327	591309.502
ERW306	491+17.47	-76.22	350617.807	591312.745
TLE504	491+17.99	-87.00	350628.592	591312.458

LOT 1
CSM No. 4153 Doc # 5522950

LOT 2
CSM No. 4153 Doc # 5522950

Parcel 2
CSM No. 3736

Parcel 1
CSM No. 3736
DOC. 5352852

Parcel 1
CSM No. 4575
Doc. No. 05790242

Parcel 2
CSM No. 4575
Doc. No. 05790242

WISCONSIN ELECTRIC POWER COMPANY AND WISCONSIN TELEPHONE COMPANY EASEMENT DOC. 5249698

12' WISCONSIN ELECTRIC POWER COMPANY EASEMENT DOC. 10677481

NO ACCESS DOC. 3939758 PROJECT ID FO2-2(6)

NO ACCESS DOC. 4541483

PHOENIX BROWN DEER, LLC
028-9985-003
028-9985-005

WHEATON FRANCISCAN
028-0020-003

WISCONSIN CENTRAL LTD

RAIL ROAD HIGHWAY EASEMENT PER PROJECT I.D. T034-1(13) R/W PLAT

ALIGNMENT PROJECT I.D. T034-1(13)

N. DEERBROOK TRAIL

W. BROWN DEER RD. / HWY 100

SLOPE INTERCEPTS

TLE FOR GRADING

WE ENERGIES ELECTRIC
PARCEL 2
5249698
DOC. 10677481
PARCEL 3
DOC. 1058365
DOC. 7971395
DOC. 5418817

AT&T WISCONSIN
PARCEL 3
DOC. 5418817
PARCEL 2
DOC. 5249698

S89°58'42"E R/L=S/L

N76°31'16"E R/L=C/L

S89°58'42"E 2671.50' S/L

N89°58'42"W 69.20'

N0°58'29"E 2645.79' S/L

N0°57'44"E 2652.23' S/L

SEE SHEET 4.06

GN

REVISION DATE 02/22/2021 05/12/2021	DATE: AUGUST 7, 2019	SCALE, FEET 0 100 200	HWY: STH 57	STATE R/W PROJECT NUMBER 2270-04-20	PLAT SHEET 4.05
	GRID FACTOR N/A		COUNTY: MILWAUKEE	CONSTRUCTION PROJECT NUMBER 2270-04-70	PS&E SHEET 868 E

FILE NAME : RW_PLAT-2270-04-00.DWG
LAYOUT NAME - 4.05

PLOT DATE : 5/7/2021 11:07 AM PLOT BY : BRIAN DODGE, PS PLOT NAME : PLOT SCALE : 1 IN:100 FT

ROAD NAME	BASIS OF EXISTING R/W AND ACCESS	YEAR	WIDTH
STH 57	PROJECT ID FO2-2(6) DOC. 3938758 DOC. 5110142	1962	VARIES
STH 100	PROJECT ID TO34-1(13) DOC. 3938758 DOC. 4532801 DOC. 4541483 DOC. 5021716	1968	VARIES
STH 100	PROJECT ID T034-1(14) 2151-1-21	1972	N/A

Curve Table				
Curve #	Length	Radius	Chord	Chord Direction
C4	234.20	3782.30	234.17	S23°09'16"E
C5	245.26	3729.71	245.22	N23°04'03"W

PI STA = 127+26.65
Y = 351189.255
X = 592027.289
DELTA = 25°11'58"
D = 1°30'00"
T = 853.79'
L = 1679.96'
R = 3819.72'
PC STA = 118+72.87
Y = 350335.469
X = 592024.947
PT STA = 135+52.83
Y = 351962.784
X = 591665.892
BK = N00°09'26"E
AH = N25°02'32"W

PI STA = 509+19.22
Y = 350542.777
X = 593120.188
DELTA = 8°31'21"
D = 2°30'00"
T = 170.77'
L = 340.90'
R = 2291.83'
PC STA = 507+48.46
Y = 350543.257
X = 592949.423
PT STA = 510+89.36
Y = 350516.996
X = 593288.996
BK = S89°50'20"E
AH = S81°18'59"E

N. GREEN BAY RD. / STH 57

POINT	STATION	OFFSET	Y	X
TLE517	132+95.44	-90.07	351693.556	591682.923
TLE518	133+05.16	-115.01	351693.330	591656.248
ERW318	133+46.84	-90.08	351919.170	591586.843
TLE519	133+46.84	-115.08	351908.632	591564.172
ERW317	136+69.60	-89.89	352830.535	591535.026
TLE520	136+69.64	-114.89	352819.989	591512.360
TLE523	127+05.72	133.66	351190.587	592067.342
TLE524	127+07.05	143.57	351194.065	592076.740
TLE525	129+57.10	118.13	351438.389	591988.522
TLE526	129+56.44	108.15	351434.971	591979.124

W. BROWN DEER RD. / HWY 100

POINT	STATION	OFFSET	Y	X
ERW310	493+38.90	-99.45	350646.663	591540.152
TLE511	493+39.22	-121.84	350669.060	591540.533
ERW311	494+83.26	-99.44	350646.253	591684.506
TLE512	495+05.19	-121.84	350668.588	591706.504
TLE513	501+39.97	-154.02	350698.985	592341.365
ERW312	502+11.81	-100.02	350644.782	592413.054
ERW527	503+52.45	-100.01	350644.382	592553.693
TLE515	503+54.20	-118.01	350662.377	592555.499
TLE514	503+57.71	-154.01	350698.367	592559.109
ERW313	506+11.81	-100.01	350643.646	592813.052
ERW314	506+58.82	-77.13	350620.638	592859.997
TLE516	506+86.07	-118.00	350661.435	592887.364
ERW315	506+86.07	-77.13	350620.561	592887.248

COURSE TABLE

COURSE	BEARING	DISTANCE
ERW310 - TLE511	N00°58'29"E	22.40'
TLE511 - TLE512	S89°50'14"E	165.97'
TLE512 - ERW311	S44°33'52"W	31.35'
ERW311 - ERW310	N89°50'14"W	144.35'
ERW312 - TLE513	N52°54'25"W	89.87'
TLE513 - TLE514	S89°50'14"E	217.74'
TLE514 - TLE515	S05°43'44"W	36.17'
TLE515 - TLE516	S89°50'14"E	331.87'
TLE516 - ERW315	S00°09'45"W	40.88'
ERW315 - ERW314	N89°50'14"W	27.25'
ERW314 - ERW313	N63°53'24"W	52.28'
ERW313 - ERW312	N89°50'14"W	400.00'
TLE517 - TLE518	S89°30'46"W	26.68'
TLE518 - TLE519*	N23°09'16"W	234.17'
TLE519 - TLE520	N24°57'06"W	122.82'
TLE520 - ERW317	N65°02'53"E	25.00'
ERW317 - ERW318	S24°57'06"E	122.83'
ERW318 - TLE517*	S23°04'03"E	245.22'
TLE523 - TLE524	N70°01'01"E	10.00'
TLE524 - TLE525	N19°50'55"W	259.82'
TLE525 - TLE526	S70°01'01"W	10.00'
TLE526 - TLE523	S19°50'55"E	259.82'

* INDICATES LC AND LCB

300 WE ENERGIES ELECTRIC
PARCEL 6 & 7
DOC. 5407667
DOC. 6195872

301 AT&T WISCONSIN
PARCEL 6 & 7
NO RECORD OF EASEMENT

302 VILLAGE OF BROWN DEER
WATER MAIN
PARCEL 6 & 7
DOC. 5460072
DOC. 5358212

306 WE ENERGIES GAS
PARCEL 6 & 7
NO RECORD OF EASEMENT

821024
MAG NAIL
N = 352913.270
E = 591351.803

821037
CONC. MON.
W/ BRASS CAP
N = 350267.858
E = 591306.791

821038
CONC. MON.
W/ ALUM. CAP
N = 350260.329
E = 593959.134

VILLAGE OF BROWN DEER
VILLAGE OF RIVER HILLS

BROWN DEER

NW-SW | NE-SW | SW-SW | SE-SW

WELCOME MART, LLC 027-8999-007
Parcel 1 CSM 8447 DOC. 10131522 VACANT
Parcel 1 CSM 1196
Parcel 2 CSM 1196
Parcel 3 CSM 1196 DOC. 4505389
FIRST BANK 027-8999-005 027-8998
BRE DDR BROWN DEER CENTER, LLC 027-9000-023
GUARANTY BANK, SSB 027-9000-012
Parcel 1 CSM 4383 DOC. 5657540
Parcel 2 CSM 4383 DOC. 5657540
DIVERSE INTERESTS 027-9000-013
Parcel 2 CSM No. 6946 Doc # 8055988

NO ACCESS DOC. 5110142 PROJECT ID F02-2(6)
NO ACCESS DOC. 3939758 PROJECT F02-2(6)
NO ACCESS DOC. 5110142 PROJECT ID 2151-1-21
TLE FOR GRADING
SLOPE INTERCEPTS
12' WEPCO EASEMENT DOC. 5407667
20' WATER MAIN EASEMENT DOC. 5460072 DOC. 5358212
20' SANITARY EASEMENT DOC. 5358213

N. KILDEER CT.
DEERWOOD DR.
N. GREEN BAY RD. / STH 57
W. BROWN DEER RD. / HWY 100
W. RIVER LANE
W. RIVER LN
MILWAUKEE R.

SEE SHEET 4.5
SEE SHEET 4.04
120+83.36 STH 57= 498+18.76 STH 100
R/L GEOMETRY REFER TO PROJECT ID T034-1(13)
PT: 492+69.32 N 350547.41 E 591470.29
491+10.31 R/L=S/L
PC: 118+72.87 N 350335.47 E 592024.95
118+03.22 R/L=S/L
PC: 507+48.46 N 350543.26 E 592949.42
517+70.71 R/L=S/L
PT: 135+52.83 N 351962.78 E 591665.89
PT: 510+89.36 N 350517.00 E 593289.00
PC: 517+88.16 N 350411.46 E 593979.79

N0°58'29"E 2645.79' S/L
S1°15'58"W 2657.34' S/L
S89°50'14"E 2652.35' S/L
S81°18'59"E
N89°50'14"W
S44°33'52"W 127.00'
S52°54'25"E 234.50'
N21°53'48"W
N20°10'44"W
N25°02'32"W
S25°57'06"E
N65°02'53"E
S23°29'51"E
S5°20'19"W
N19°55'55"W
S0°09'45"W
N5°43'46"E
273.43'
153.84'
717.97'
99.44'
78.1'
78.1'
80'
80'
75'
100'
50.65'
259.36'
140.64'
18.09'
22.4'
54'
18'
42'
495
500
505
510
515
120
175
130
135
SLOPE INTERCEPTS
TLE517
TLE518
TLE519
TLE520
TLE511
TLE512
TLE513
TLE514
TLE515
TLE516
TLE523
TLE524
TLE525
TLE526
ERW310
ERW311
ERW312
ERW313
ERW314
ERW315
ERW317
ERW318
ERW527
PI: 127+26.65
PI: 509+19.22
C4
C5
25'
0.8'
0.8'

REVISION DATE			
02/22/2021			
05/12/2021			

DATE: AUGUST 7, 2019
GRID FACTOR N/A
SCALE, FEET 0 100 200
HWY: STH 57
COUNTY: MILWAUKEE
STATE R/W PROJECT NUMBER 2270-04-20
CONSTRUCTION PROJECT NUMBER 2270-04-70
PLAT SHEET 4.06
PS&E SHEET 869
E

FILE NAME : RW_PLAT-2270-04-00.DWG
LAYOUT NAME - 4.06
PLOT DATE : 5/7/2021 11:07 AM
PLOT BY : BRIAN DODGE, PS
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

4

GN

SEE SHEET 4.06

821037
CONC. MON.
W/ BRASS CAP
N = 350267.858
E = 591306.791

821038
CONC. MON.
W/ ALUM. CAP
N = 350260.329
E = 593959.134

717.97'

W. RIVER LN

S89°50'14"E 2652.35' S/L

N89°32'48"W

W. RIVER LN

153.84'

N0°57'44"E 2652.23' S/L

VILLAGE

OF

BROWN DEER

RIVER HILLS

NE-NW

NW-NW

SW-NW

N9°14'01"W

N0°10'04"W 385.87'

118+03.22
R/L=S/L

N. GREEN BAY RD. / STH 57

S12°26'25"W

N0°09'26"E R/L

S0°09'46"W

PT: 110+57.22
N 349519.83
E 592022.71

PI STA = 106+03.43
Y = 349047.448
X = 592021.413
DELTA = 27°47'07"
D = 3°00'00"
T = 472.38'
L = 926.18'
R = 1909.86'
PC STA = 101+31.05
Y = 348630.137
X = 591800.062
PT STA = 110+57.22
Y = 349519.829
X = 592022.709
BK = N27°56'33"E
AH = N00°09'26"E

SLOPE
INTERCEPTS

SLOPE
INTERCEPTS

SLOPE
INTERCEPTS

LOT 1
CSM No. 9110
DOC. 10847306

DEERWOOD DRIVE

12' STORM DRAINAGE
EASEMENT
DOC. 5436120

71'

PRW201

TLE501

ERW302

ERW301

PRW300

PRW200

S14°27'43"W
88.99'

S14°27'32"W
180.49'

9

VILLAGE OF
BROWN DEER
048-2004-000

OUTLOT 1
CSM No. 8224
DOC. 09858856

TLE
FOR GRADING

NO ACCESS
DOC. 4007957

TLE500

RUTH PL.

S14°06'46"W

PT: 106+03.43

VILLAGE OF BROWN DEER
VILLAGE OF RIVER HILLS

105

110

115

BEGIN RELOCATION ORDER
STA. 104+00
N 348875.81
E 591908.97

821050
CONC. MON.
W/ BRASS CAP
N = 347615.997
E = 591262.256

PC: 101+31.05
N 348630.14
E 591800.06

N27°56'33"E

N/L

ROAD NAME	BASIS OF EXISTING R/W AND ACCESS	YEAR	WIDTH
STH 57	PROJECT ID FO2-2(6) DOC. 4007957	1962	VARIES

COURSE TABLE

COURSE	BEARING	DISTANCE
ERW301 - PRW200	N89°29'02"W	11.37'
PRW200 - PRW201	N04°46'44"E	63.45'
PRW201 - ERW302	N72°57'12"E	6.57'
ERW302 - ERW301	S00°10'04"W	65.26'
PRW200 - ERW300	N89°29'02"W	18.76'
ERW300 - TLE500	S14°27'32"W	109.84'
TLE500 - TLE501	N00°09'02"E	155.77'
TLE501 - PRW201	N72°57'12"E	53.42'

POINT	STATION	OFFSET	Y	X
TLE500	106+88.37	-98.62	349172.559	591889.464
ERW300	108+03.44	-89.11	349278.888	591916.883
PRW200	108+05.90	-70.49	349278.718	591935.652
ERW301	108+07.37	-59.20	349278.616	591947.029
TLE501	108+49.71	-121.76	349326.291	591889.869
PRW201	108+71.79	-72.63	349341.950	591940.939
ERW302	108+74.42	-66.57	349343.876	591947.220

REVISION DATE			
02/22/2021			
05/12/2021			

DATE: AUGUST 7, 2019

GRID FACTOR N/A

SCALE, FEET
0 100 200

HWY: STH 57

COUNTY: MILWAUKEE

STATE R/W PROJECT NUMBER 2270-04-20

CONSTRUCTION PROJECT NUMBER 2270-04-70

PLAT SHEET 4.04

PS&E SHEET 870

E

FILE NAME : RW_PLAT-2270-04-00.DWG
LAYOUT NAME - 4.04

PLOT DATE : 5/7/2021 11:07 AM PLOT BY : BRIAN DODGE, PS PLOT NAME : PLOT SCALE : 1 IN:100 FT

POINT	STATION	OFFSET	Y	X
PRW206	130+22.50	-59.94	353377.786	591297.995
ERW319	130+33.32	-59.94	353388.602	591297.878
PRW205	130+38.71	-70.56	353393.874	591287.191
ERW320	130+43.53	-70.14	353398.705	591287.568
PRW204	130+43.42	-92.25	353400.353	591265.432
ERW321	151+42.38	-59.94	353497.659	591296.685
PRW202	151+44.50	-85.05	353499.500	591271.557
PRW203	151+59.36	-59.94	353514.640	591296.510

ROAD NAME	BASIS OF EXISTING R/W AND ACCESS	YEAR	WIDTH
STH 57	PROJECT ID FO2-2(6)	1962	VARIES
STH 57	CSM 6834, DOC. 7922238	2000	VARIES
STH 57	OPUS NORTH	1982	VARIES
STH 57	CSM 6408, DOC. 7922238	1997	VARIES

GN

821011
CONC. MON.
W/ BRASS CAP
N = 355643.643
E = 591378.888
CLOSING CORNER

T 8 N R 21 E 1 2

BROWN DEER BUSINESS PARK

W. SCHROEDER DR.

OUTLOT 1
Opus North

12

ARK HOTEL, LLC
010-0152

PRW203

SLOPE INTERCEPTS

N0°37'18"W

2192.62'

60'

R/L

S/L

60'

150+95.20
R/L=S/L

SANITARY SEWER EASEMENT
DOC. 6471059
MMSD

C7 ERW321

PRW202

SIDEWALK EASEMENT
DOC. 10449799

VILLAGE

PRW204

SLOPE INTERCEPTS

C6 ERW320

ERW319

SE-NE

PRW205

11

PRW206

537.89'

150

60'

N0°37'18"W

LOT 2
CSM No. 6408

Parcel 2
CSM No. 6834
DOC. 7922238

DAVID HORTON FOODS, LLC
010-0151-00

R/W WIDTH VARIES

SANITARY SEWER EASEMENT
DOC. 6471059
MMSD

Parcel 1
CSM No. 6834

OUTLOT 1

WE ENERGIES ELECTRIC EASEMENT
DOC. 5686334

OF

LOT 1
CSM No. 6408

N0°37'18"W R/L

N. GREEN BAY RD./STH 57

S0°34'06"W 2730.51' S/L

60'

PI STA = 142+60.53
Y = 352603.960
X = 591366.331
DELTA = 24°25'14"
D = 3°00'00"
T = 413.29'
L = 814.02'
R = 1909.86'
PC STA = 138+47.25
Y = 352229.526
X = 591541.269
PT STA = 146+61.27
Y = 353017.221
X = 591361.847
BK = N25°02'32"W
AH = N00°37'18"W

Curve Table				
Curve #	Length	Radius	Chord	Chord Direction
C6	22.20	250.00	22.19	S85°44'25"E
C7	25.23	150.00	25.21	N85°48'38"W

COURSE TABLE

COURSE	BEARING	DISTANCE
ERW319 - PRW206	S00°37'18"E	10.82'
PRW206 - PRW205	N33°53'04"W	19.38'
PRW205 - PRW204	N73°25'05"W	22.70'
PRW204 - ERW320*	S85°44'25"E	22.19'
ERW320 - ERW319	S45°36'10"E	14.44'
ERW321 - PRW202*	N85°48'38"W	25.21'
PRW202 - PRW203	N58°45'14"E	29.19'
PRW203 - ERW321	S00°37'18"E	16.98'

* INDICATES LC AND LCB

300 WE ENERGIES ELECTRIC
PARCEL 11 & 12
DOC. 5686334

303 MMSD SEWER
PARCEL 11 & 12
DOC. 6471059

ELIMINATED

BROWN DEER

T 8 N R 21 E 2 1

PT: 146+61.27
N 353017.22
E 591361.85

821024
MAG NAIL
N = 352913.270
E = 591351.803
STA. 145+58.13
OFFSET -13.98'

S89°50'50"E 2676.29' S/L

N89°55'10"E 2666.04' S/L

14.00'

145+57.25
R/L=S/L

145

T 8 N R 21 E 2

821023
CONC. MON.
W/ BRASS CAP
N = 352920.408
E = 588675.520

T 8 N R 21 E 1

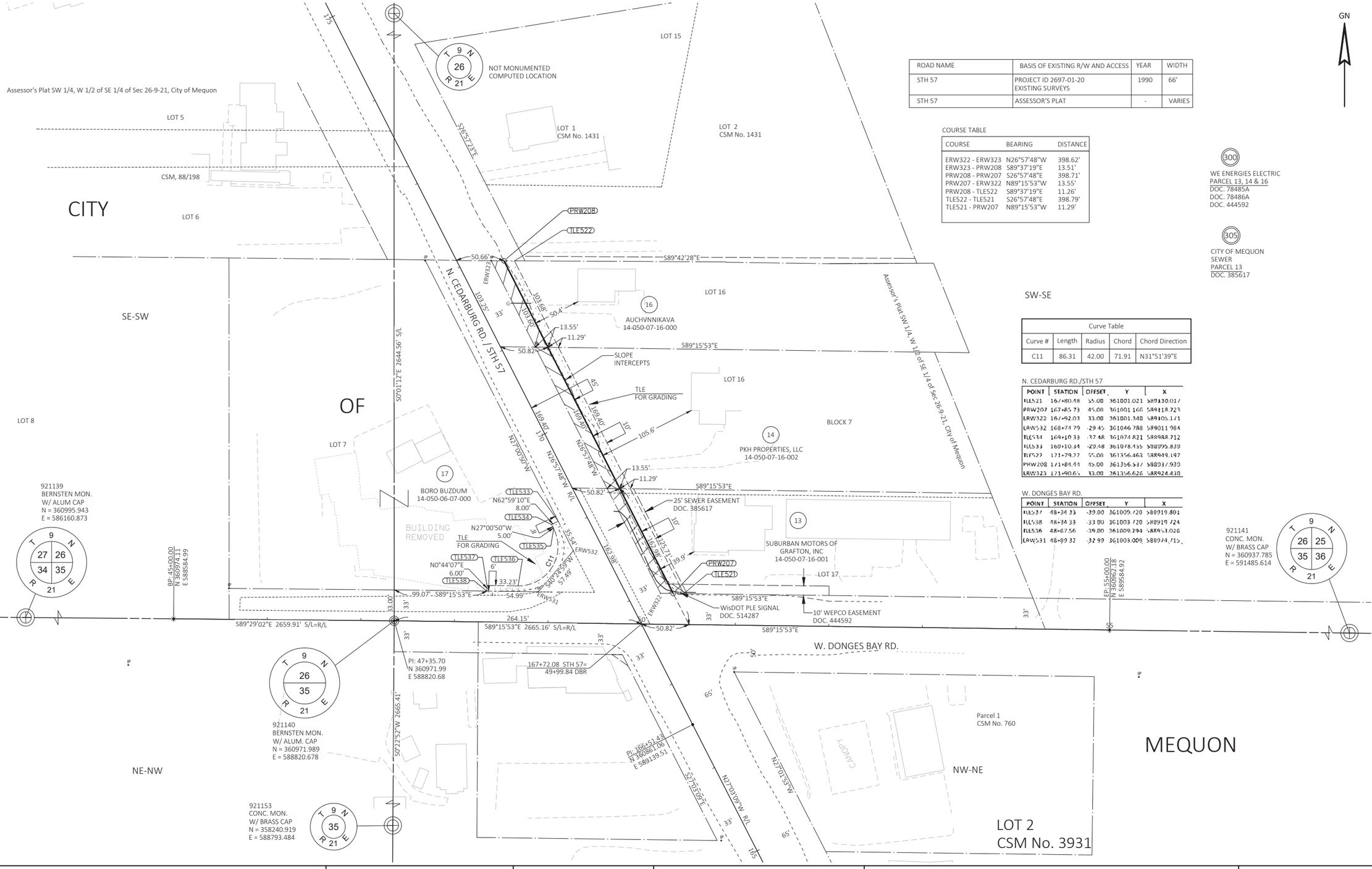
821025
CONC. MON.
W/ BRASS CAP
N = 352917.016
E = 594017.845

4

REVISION DATE 02/22/2021 05/12/2021	DATE: AUGUST 7, 2019	SCALE, FEET 0 50 100	HWY: STH 57	STATE R/W PROJECT NUMBER 2270-04-20	PLAT SHEET 4.07	
	GRID FACTOR N/A		COUNTY: MILWAUKEE	CONSTRUCTION PROJECT NUMBER 2270-04-70	PS&E SHEET 871	E

FILE NAME : RW_PLAT-2270-04-00.DWG
LAYOUT NAME - 4.07

PLOT DATE : 5/7/2021 11:07 AM PLOT BY : BRIAN DODGE, PS PLOT NAME : PLOT SCALE : 1 IN:50 FT



ROAD NAME	BASIS OF EXISTING R/W AND ACCESS	YEAR	WIDTH
STH 57	PROJECT ID 2697-01-20 EXISTING SURVEYS	1990	66'
STH 57	ASSESSOR'S PLAT	-	VARIES

COURSE TABLE

COURSE	BEARING	DISTANCE
ERW322 - ERW323	N26°57'48"W	398.62'
ERW323 - PRW208	S89°37'19"E	13.51'
PRW208 - PRW207	S26°57'48"E	398.71'
PRW207 - ERW322	N89°15'53"W	13.55'
PRW208 - TLE522	S89°37'19"E	11.26'
TLE522 - TLE521	S26°57'48"E	398.79'
TLE521 - PRW207	N89°15'53"W	11.29'

(300) WE ENERGIES ELECTRIC
PARCEL 13, 14 & 16
DOC. 78485A
DOC. 78486A
DOC. 444592

(305) CITY OF MEQUON
SEWER
PARCEL 13
DOC. 385617

Curve Table				
Curve #	Length	Radius	Chord	Chord Direction
C11	86.31	42.00	71.91	N31°51'39"E

N. CEDARBURG RD./STH 57

POINT	STATION	OFFSET	Y	X
TLE521	167+80.48	55.00	361001.021	589130.017
PRW207	167+85.73	45.00	361001.166	589118.723
ERW322	167+92.03	33.00	361001.340	589105.171
ERW532	168+74.79	-29.45	361046.788	589011.984
TLE534	169+10.33	-37.48	361074.821	588988.712
TLE533	169+10.44	-29.48	361078.455	588995.839
TLE522	171+79.97	55.00	361356.463	588949.147
PRW208	171+84.41	45.00	361356.537	588937.939
ERW323	171+90.65	33.00	361356.626	588924.430

W. DONGES BAY RD.

POINT	STATION	OFFSET	Y	X
TLE537	48+34.33	-39.00	361009.720	588919.801
TLE538	48+34.33	-33.00	361003.720	588919.724
TLE536	48+67.56	-39.00	361009.294	588953.026
ERW531	48+89.32	-32.99	361003.009	588974.715

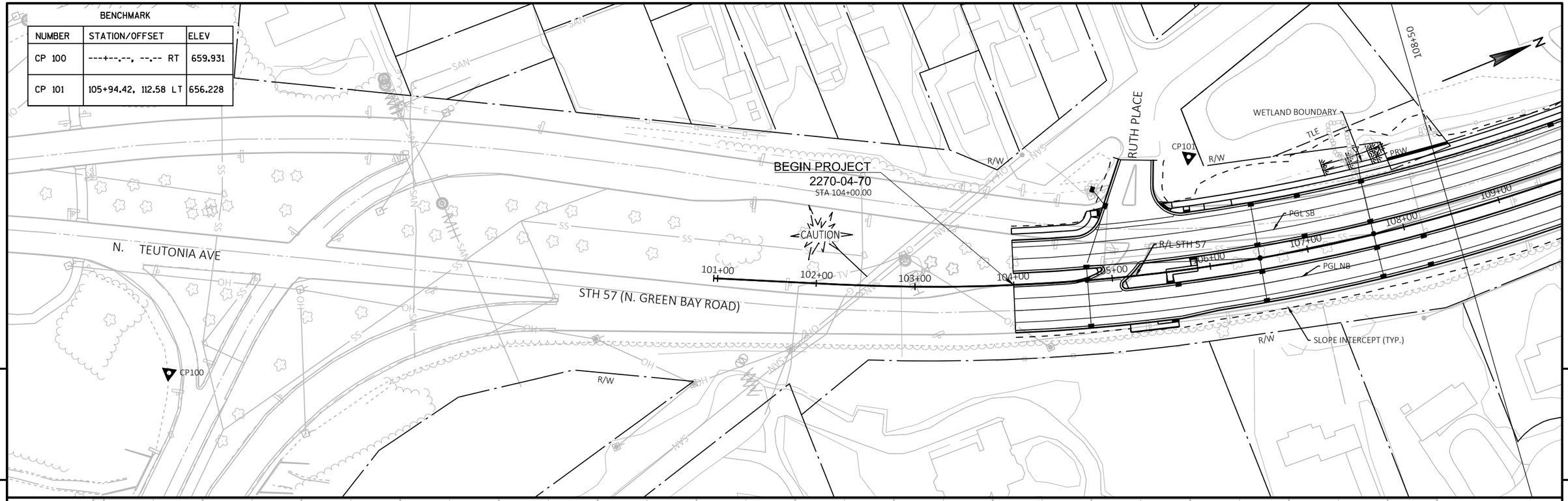
REVISION DATE			
02/22/2021			
05/12/2021			

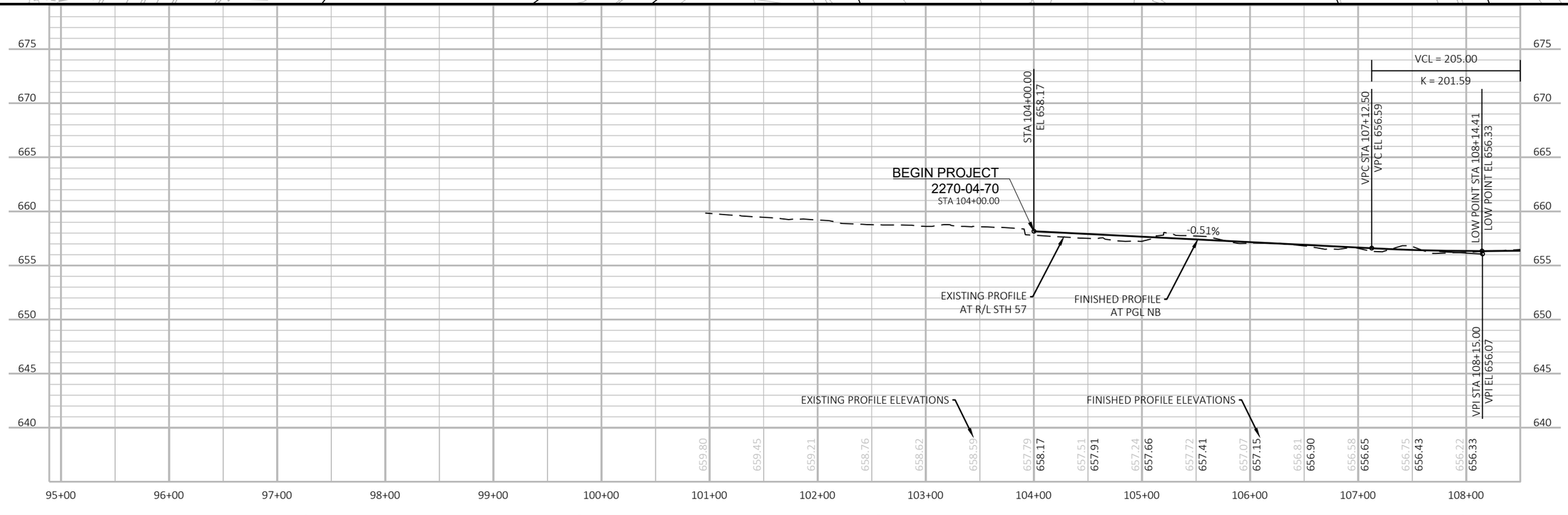
DATE: AUGUST 7, 2019	SCALE, FEET 0 50 100	HWY: STH 57	STATE R/W PROJECT NUMBER 2270-04-20	PLAT SHEET 4.08	
GRID FACTOR N/A		COUNTY: OZAUKEE	CONSTRUCTION PROJECT NUMBER 2270-04-70	PS&E SHEET 872	E

FILE NAME : RW_PLAT-2270-04-00.DWG
LAYOUT NAME - 4.08

PLOT DATE : 5/7/2021 11:07 AM PLOT BY : BRIAN DODGE, PS PLOT NAME : PLOT SCALE : 1 IN:50 FT

BENCHMARK		
NUMBER	STATION/OFFSET	ELEV
CP 100	---+--.--, --.-- RT	659.931
CP 101	105+94.42, 112.58 LT	656.228





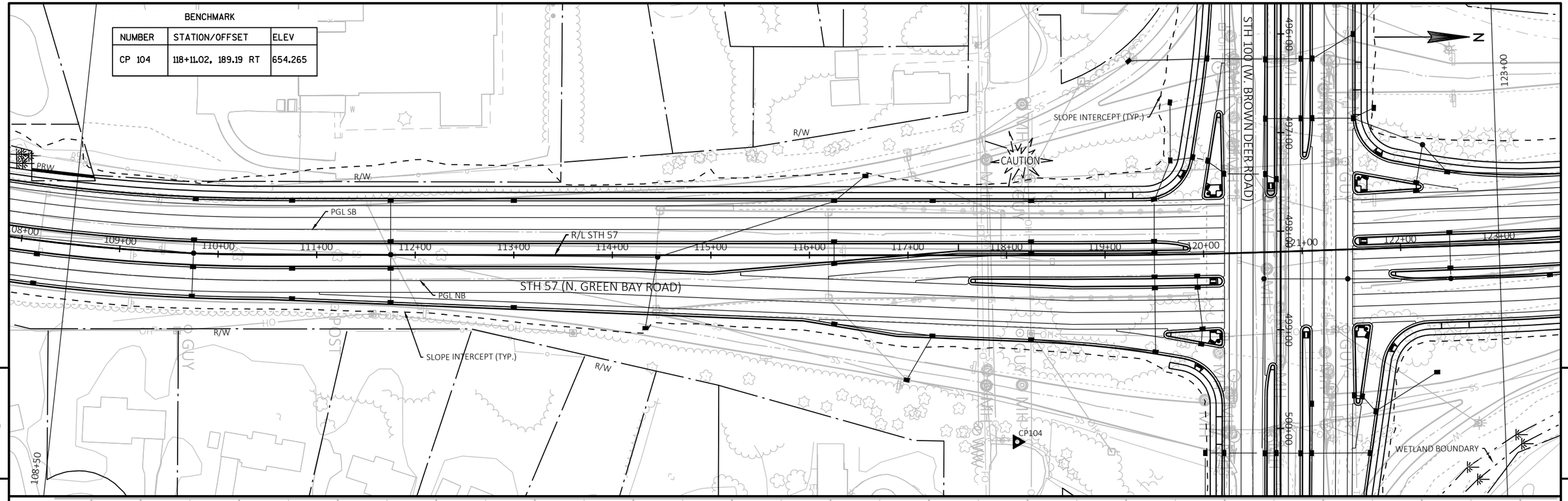
PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PLAN AND PROFILE: STH 57 (N GREEN BAY ROAD) NB	SHEET 873	E

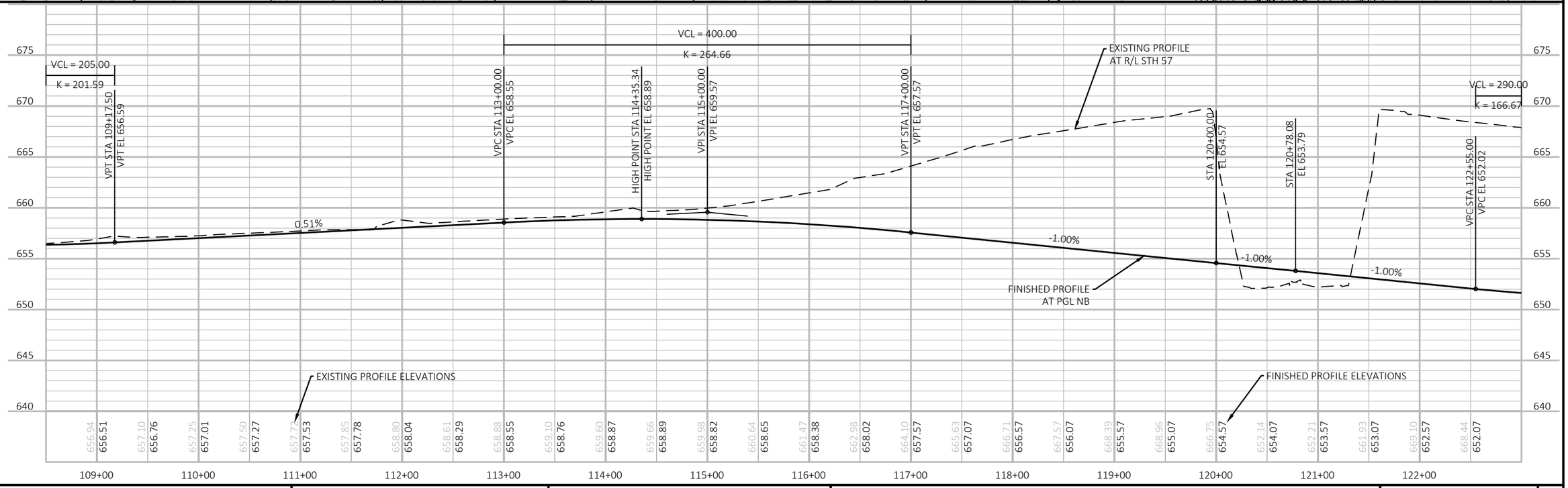
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LAYOUT NAME - 050101

PLOT DATE : 4/27/2021 8:24 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

BENCHMARK		
NUMBER	STATION/OFFSET	ELEV
CP 104	118+11.02, 189.19 RT	654.265

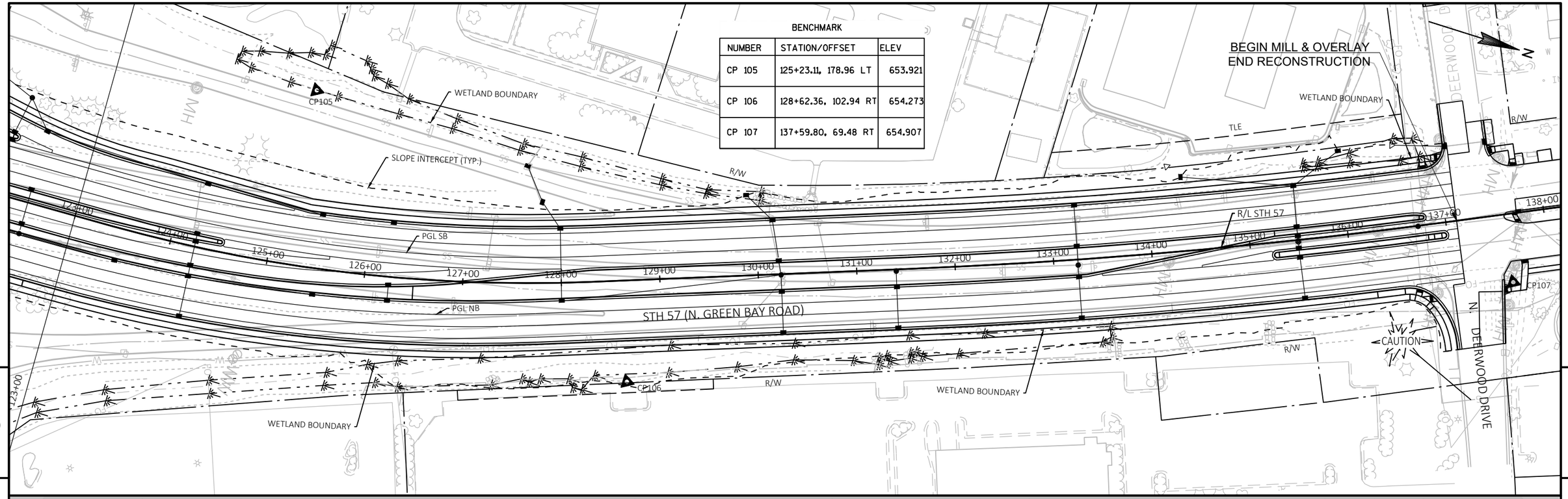


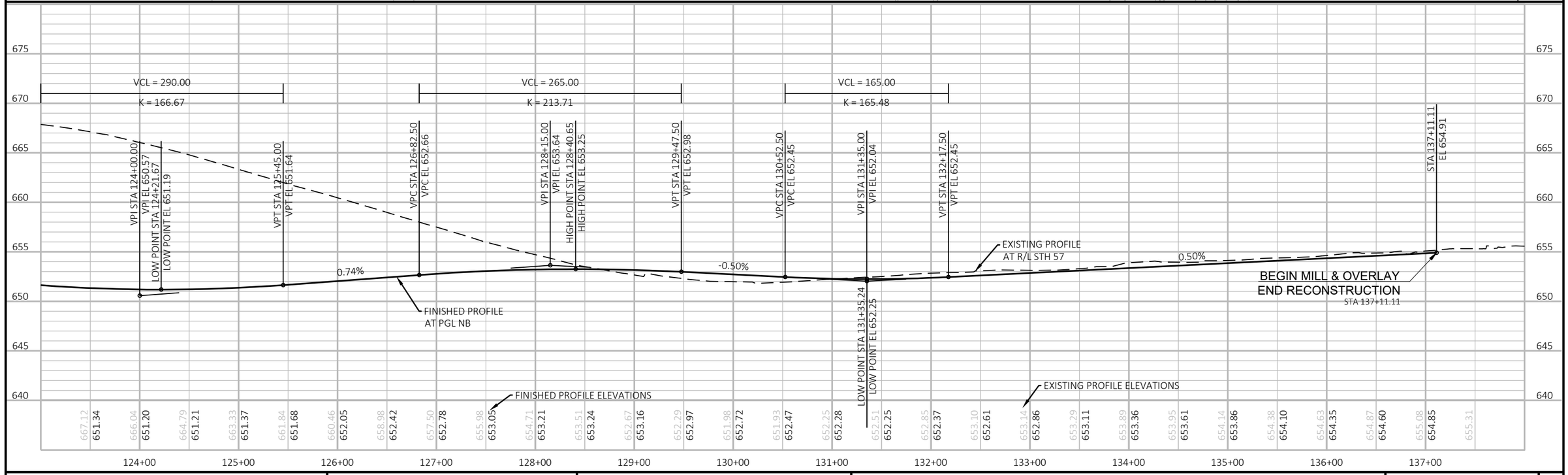


PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PLAN AND PROFILE: STH 57 (N GREEN BAY ROAD) NB	SHEET 874	E

BENCHMARK

NUMBER	STATION/OFFSET	ELEV
CP 105	125+23.11, 178.96 LT	653.921
CP 106	128+62.36, 102.94 RT	654.273
CP 107	137+59.80, 69.48 RT	654.907



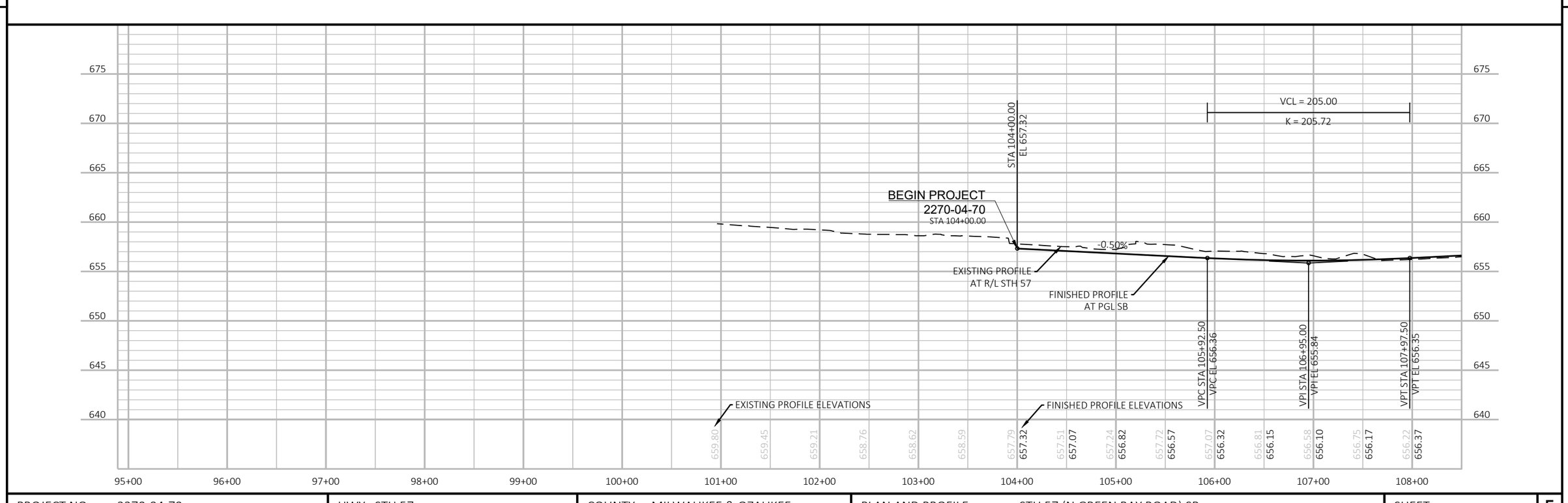


PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PLAN AND PROFILE: STH 57 (N GREEN BAY ROAD) NB	SHEET 875	E

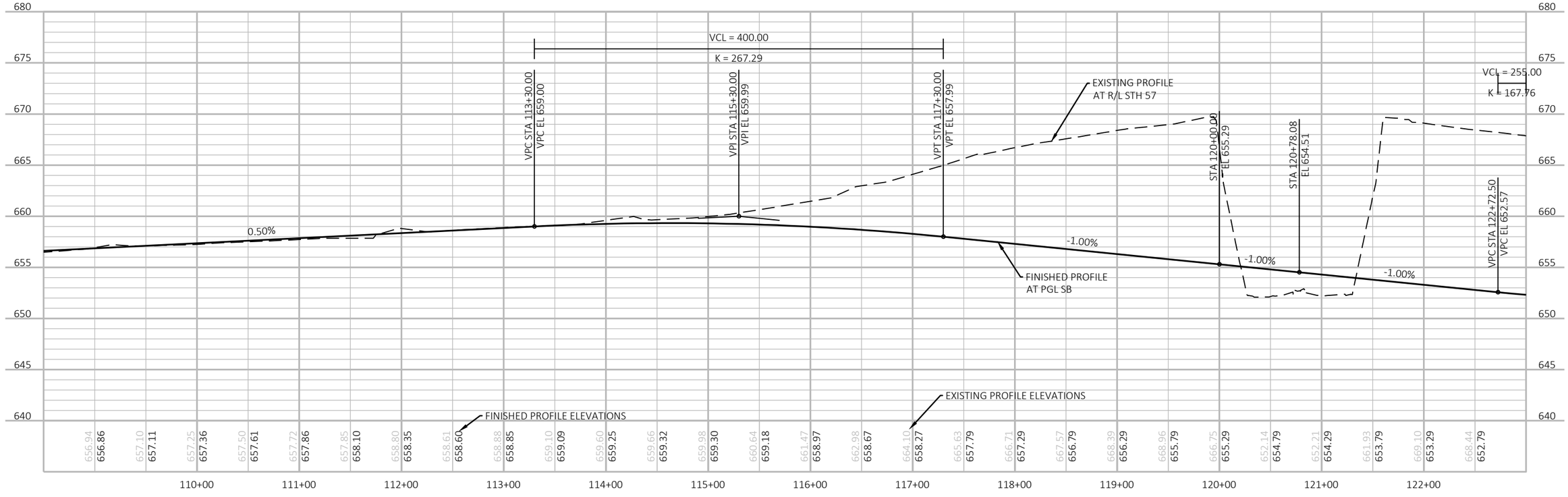
FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\050101_PP.DWG
LAYOUT NAME - 050103

PLOT DATE : 4/27/2021 8:25 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44



PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PLAN AND PROFILE: STH 57 (N GREEN BAY ROAD) SB	SHEET 876	E



PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PLAN AND PROFILE: STH 57 (N GREEN BAY ROAD) SB	SHEET 877	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\050101_PP.DWG
LAYOUT NAME - 050112

PLOT DATE : 4/27/2021 8:26 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

NOTE:
1) SEE CONSTRUCTION DETAILS - CURB RAMPS FOR ADDITIONAL INFORMATION

N

STH 57 (GREEN BAY ROAD)

R/L STH 57 (GREEN BAY ROAD)

SCHROEDER DR

CAUTION

STA 150+71.12,-126.59'
STA 150+85.66,-83.19'
STA 150+61.06,-85.57'
STA 150+36.31,-52.52'
R=51'
STA 150+11.37,-46.00'
STA 150+84.45,-61.58'
STA 150+92.95,-61.45'
R=8.5'
STA 150+82.55,-123.75'
STA 151+16.90,-83.87'
STA 151+03.01,-85.57'
STA 151+01.45,-61.32'
STA 151+27.98,-82.46'
STA 151+50.88,-48.59'
R=35'
STA 151+64.45,-46.23'
STA 150+23.69,46.00'
STA 150+46.82,52.26'
R=47'
STA 150+61.69,93.34'
STA 150+70.69,93.43'
STA 150+62.07,118.35'
STA 150+70.56,118.61'
STA 150+92.57,107.39'
STA 151+46.84,46.00'
STA 151+26.66,53.17'
R=32'
STA 151+14.84,77.71'
STA 151+14.39,118.82'
R/W

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PLAN SHEETS	SHEET 878 E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\050201_PN.DWG
LAYOUT NAME - 050204
PLOT DATE : 4/1/2021 4:03 PM PLOT BY : JOHNATHAN OLSON PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44

5

5

STH 57 (GREEN BAY ROAD)

COUNTY LINE ROAD

R/W

PI: 173+24.23

PT 172+97.23

STA 173+40.93,-58.80'

COUNTY LINE ROAD LIMIT

COUNTY LINE ROAD LIMIT

STA 172+75.54,81.30'

R/L STH 57 (GREEN BAY ROAD)

CAUTION

STA 175+55.21,19.69'

STA 174+95.71,33.09'

STA 175+55.40,27.67'

CAUTION

STA 175+55.03,23.71'
R=35'

STH 57

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PLAN SHEETS	SHEET 879	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\050201_PN.DWG
LAYOUT NAME - 050204_A

PLOT DATE : 4/1/2021 4:03 PM PLOT BY : JOHNATHAN OLSON PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44

ROADWAY WIDENING

N

5

5

R/L STH 57 (CEDARBURG ROAD)

STH 57 (CEDARBURG ROAD)

R/W

R/W

STA 221+84.05,12.00'

SLOPE INTERCEPT (TYP)

SLOPE INTERCEPT (TYP)

CAUTION

CAUTION

STA 225+29.54,24.76'

STA 225+47.06,32.49'
R=25'

STA 225+53.97,50.31'

STA 225+53.64,64.95'

STA 226+42.55,11.06'

STA 226+15.51,26.69'

STA 225+98.33,33.00'
R=25'

STA 225+89.96,51.12'

STA 225+89.65,64.97'

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PLAN SHEETS	SHEET 880	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\050201_PN.DWG
LAYOUT NAME - 050205

PLOT DATE : 4/1/2021 4:03 PM PLOT BY : JOHNATHAN OLSON PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44

5

5

STA 231+58.83,-168.27'

R/L DONGES BAY ROAD

STA 231+88.22,-130.12'

STA 231+71.81,-98.81'

STA 230+93.88,-44.78'
R=5'

STA 230+78.42,-29.29'
R=37'

STA 230+61.13,-25.00'
R=5'

STA 231+38.92,-32.95'
R=2'

STA 231+70.78,-47.97'
R=40'

STA 231+56.44,-21.00'
R=1'

STA 232+25.00,-24.00

TLE533

SLOPE INTERCEPT (TYP)

SLOPE INTERCEPT (TYP)

SLOPE INTERCEPT (TYP)

R/W

R/W

R/W

CAUTION

CAUTION

CAUTION

CAUTION

CAUTION

CAUTION

STA 228+92.93,-24.37'

R/L STH 57 (CEDARBURG ROAD)

STA 227+73.91,-12.00'

R/W

STA 231+33.59,-22.00'
R=2'

CAUTION

STH 57 (CEDARBURG ROAD)

STA 230+54.10,35.00'
R=1'

STA 230+28.58,37.00'
R=3'

STA 231+32.21,31.00'

R/W

SLOPE INTERCEPT (TYP)

STA 233+05.10,32.00'

STA 229+51.22,31.07'

STA 229+51.22,42.00'

STA 229+76.27,30.99'

STA 229+76.29,41.99'

STA 230+15.72,49.58'
R=50'

R/W

CAUTION

TLE521

STA 230+99.72,42.68'
R=50'

STA 228+52.28,26.00'

CAUTION

SLOPE INTERCEPT (TYP)

STA 230+47.10,48.34'
R=1'

CAUTION

STA 230+82.16,67.61'

STA 230+21.77,105.20'

STA 230+60.22,109.39'

DONGES BAY ROAD

FILLER CAPS

FILLER CAPS

CANOPY

STA 229+73.38,227.80'

ROADWAY WIDENING

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PLAN SHEETS	SHEET 881	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\050201_PN.DWG
LAYOUT NAME - 050206

PLOT DATE : 4/1/2021 4:03 PM PLOT BY : JOHNATHAN OLSON PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44

BAYBERRY PRWY

BAYBERRY PKWY.

SIGN

CAUTION

R/W

SLOPE INTERCEPT (TYP)

STA 236+16.99,-20.00'

R/L STH 57 (CEDARBURG ROAD)

12.0'

12.0'

STH 57 (CEDARBURG ROAD)

STA 239+93.80,12.00'

STA 237+88.80,10.17'

SLOPE INTERCEPT (TYP)

R/W

CAUTION

CAUTION

5

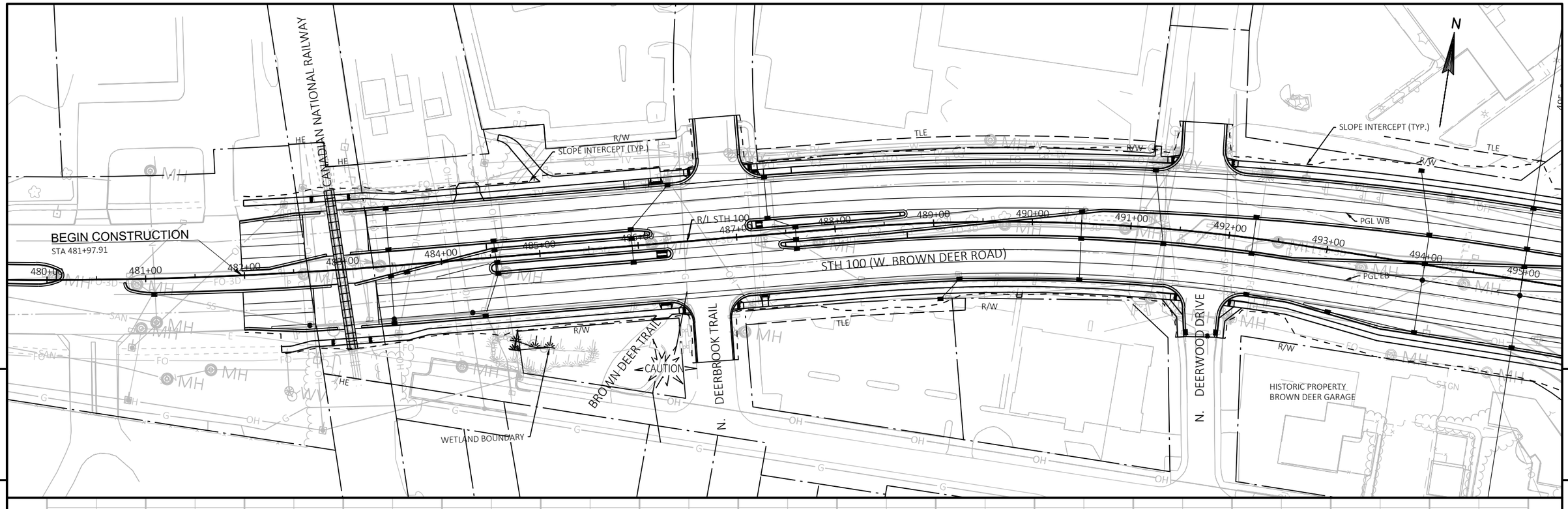
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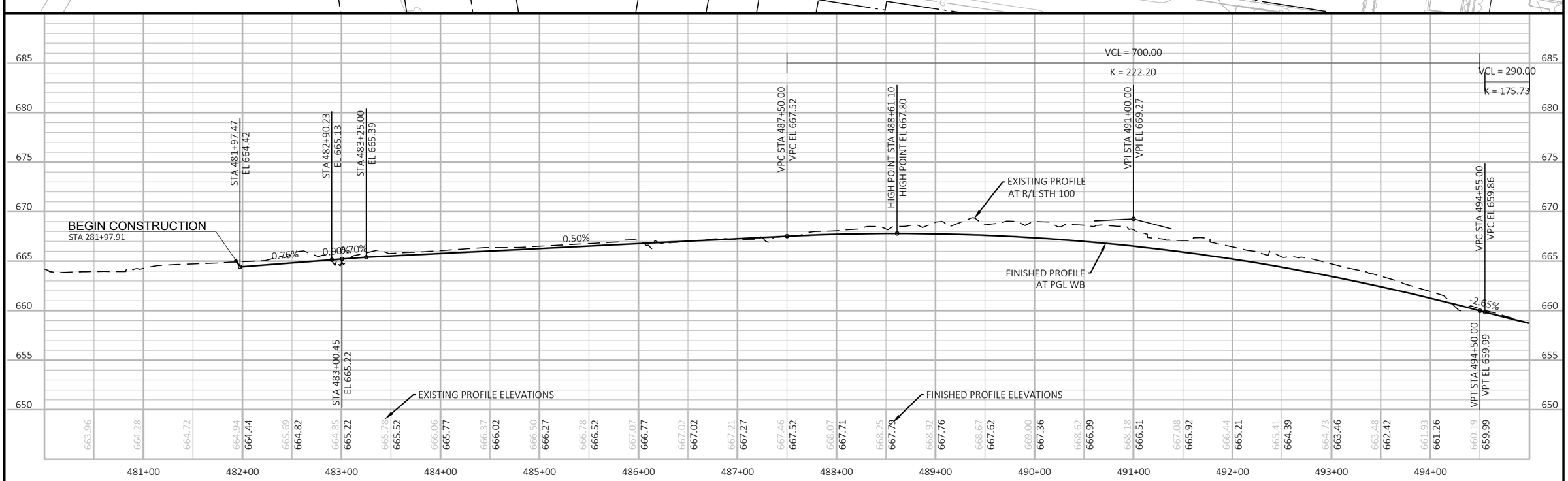
PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PLAN SHEETS	SHEET 882	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\050201_PN.DWG
LAYOUT NAME - 050207

PLOT DATE : 4/1/2021 4:04 PM PLOT BY : JOHNATHAN OLSON PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44





PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PLAN AND PROFILE: STH 100 (W. BROWN DEER ROAD) WB	SHEET 883 E

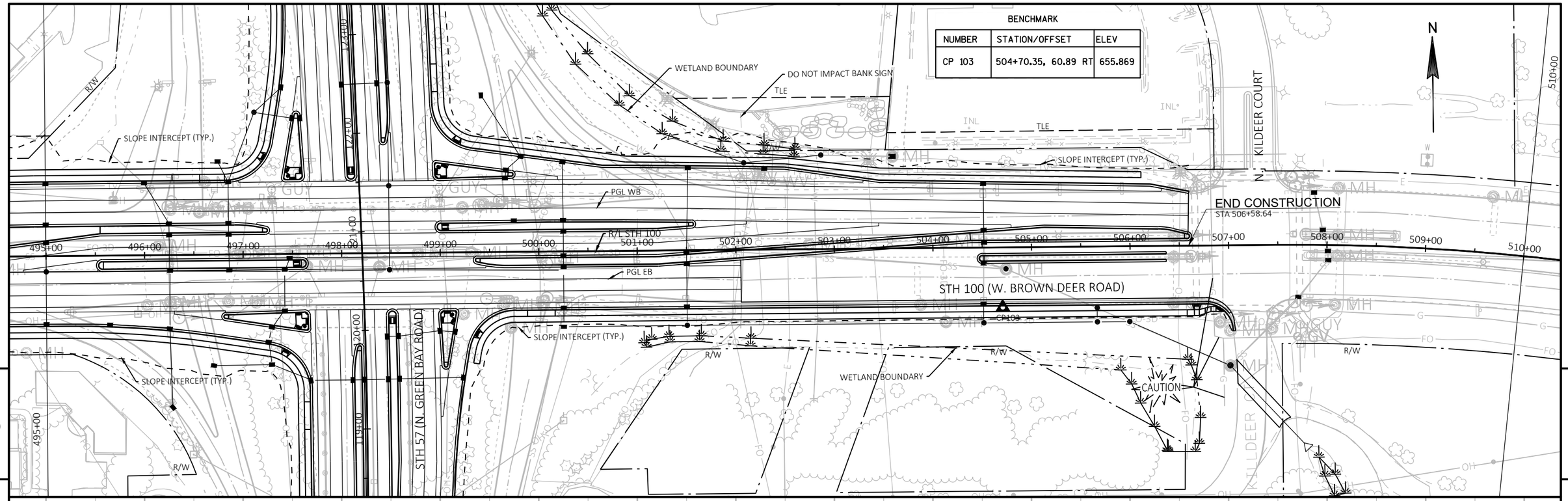
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LAYOUT NAME - 050104

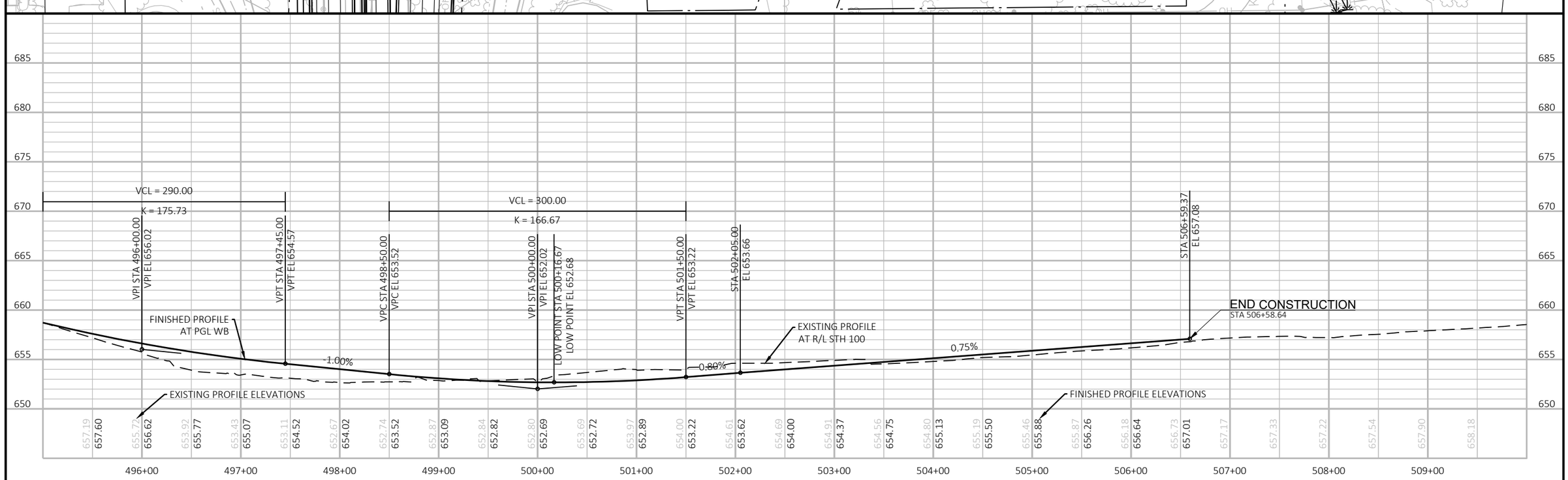
PLOT DATE : 4/27/2021 8:33 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

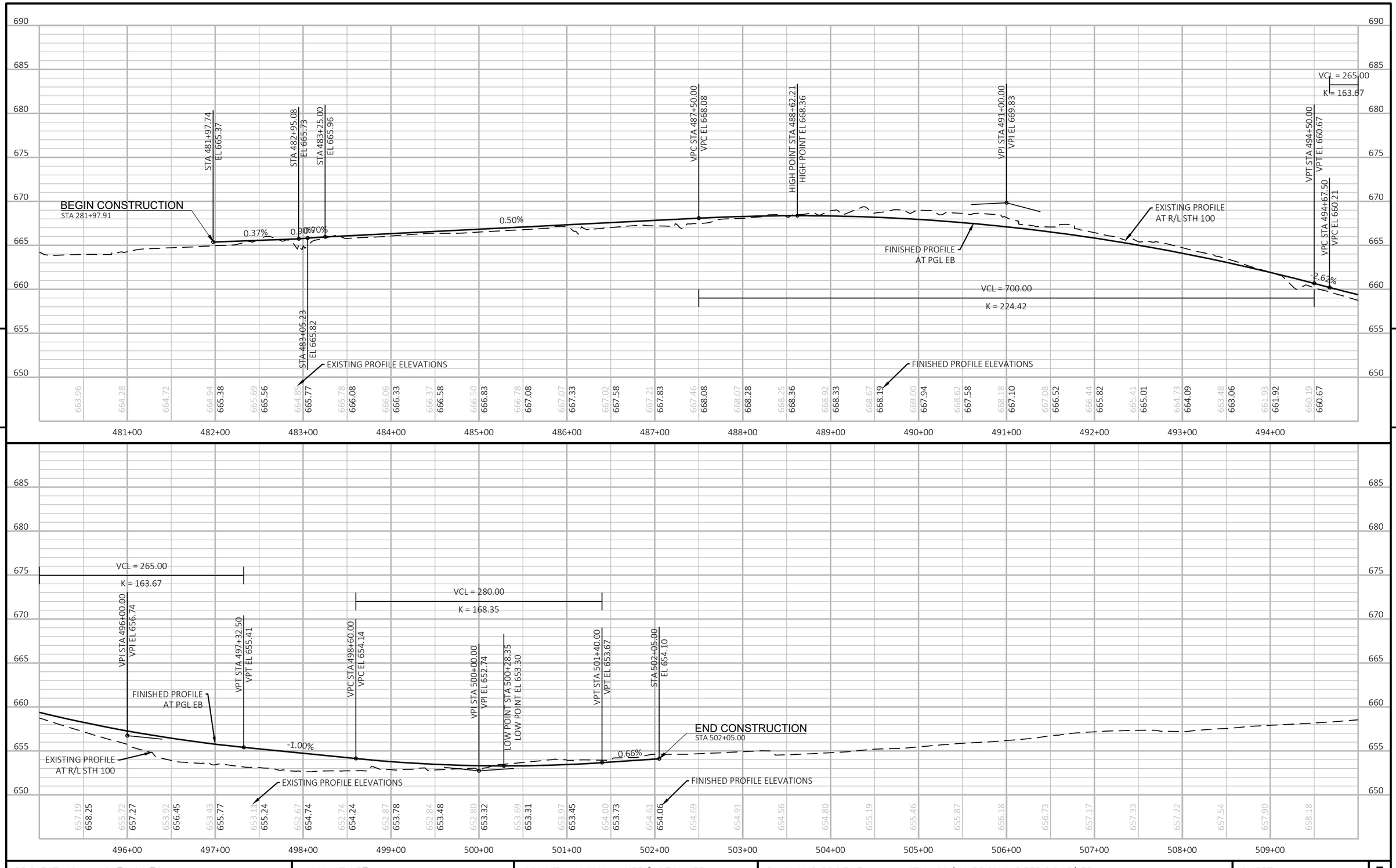
BENCHMARK

NUMBER	STATION/OFFSET	ELEV
CP 103	504+70.35, 60.89 RT	655.869





PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PLAN AND PROFILE: STH 100 (W. BROWN DEER ROAD) WB	SHEET 884	E



PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	PLAN AND PROFILE: STH 100 (W. BROWN DEER ROAD) EB	SHEET 885	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\050102_PP.DWG
LAYOUT NAME - 050122

PLOT DATE : 4/27/2021 8:34 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

Standard Detail Drawing List

08A05-19A	INLET COVERS TYPE A, H, A-S, H-S & Z
08A05-19B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08A05-19C	INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S
08A05-19D	INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M
08A08-02	CATCH BASINS 3-FT, 4-FT, 5-FT AND 6-FT DIAMETER
08A09-02	CATCH BASINS 2X3-FT AND 2.5X3-FT
08B09-02	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER
08C06-02	INLETS 3-FT AND 4-FT DIAMETER
08C08-02	INLETS MEDIAN 1 AND 2 GRATE
08D01-22A	CONCRETE CURB & GUTTER
08D01-22B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08D05-20A	CURB RAMPS TYPES 1 AND 1-A
08D05-20B	CURB RAMPS TYPES 2 AND 3
08D05-20C	CURB RAMPS TYPES 4A AND 4A1
08D05-20D	CURB RAMPS TYPE 4B AND 4B1
08D05-20E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08D05-20F	CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS
08D05-20G	CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES
08D16-11	CONCRETE GUTTER, CURB AND GUTTER AND PAVEMENT TIES
08D22-01	DRIVEWAYS WITHOUT CURB & GUTTER RESURFACING PROJECTS RURAL
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E12-01	SILT SCREEN
08E14-01	TRACKING PAD
08E15-01	CULVERT PIPE CHECK
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
09B02-10	CONDUIT
09B04-11	PULL BOX
09C02-09	CONCRETE BASES, TYPES 1, 2, 5, & 6
09C03-04	TRANSFORMER/PEDESTAL BASES
09C06-07	CONCRETE CONTROL CABINET BASE, TYPE 9, SPECIAL
09C11-10	CONCRETE BASE TYPE 10
09C13-02	CONCRETE BASE TYPE 10 & TYPE 13 EXTENSION
09C15-01	CONCRETE BASE TYPE 10 SPECIAL
09D01-05	CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)
09D02-03	SIGNAL CONTROL CABINET
09E01-15A	POLE MOUNTINGS FOR TRAFFIC SIGNALS TYPE 2
09E01-15B	POLE MOUNTINGS FOR TRAFFIC SIGNALS AND LIGHTING UNITS, TYPE 3 (HEAVY DUTY)
09E01-15C	POLE MOUNTINGS FOR TRAFFIC SIGNALS AND LIGHTING UNITS, TYPE 4
09E01-15D	POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 5 (30 FEET)
09E01-15G	HARDWARE DETAILS FOR POLE MOUNTINGS
09E03-06	NON-FREEWAY LIGHTING UNIT POLE WIRING
09E06-05	TRAFFIC SIGNAL STANDARD POLY BRACKET MOUNTINGS (TYPICAL) 13 FT. OR 15 FT.
09E07-06	TRAFFIC SIGNAL STANDARD PEDESTRIAN AND FLASHER TYPICAL MOUNTING DETAILS
09E08-09A	TYPE 9 POLE 15'-30' MONOTUBE ARM
09E08-09B	TYPE 9 SPECIAL POLE 35' MONOTUBE ARM
09E08-09C	TYPE 9 SPECIAL POLE 40' MONOTUBE ARM
09E08-09D	TYPE 9 SPECIAL POLE 45' MONOTUBE ARM
09E08-09E	TYPE 10 POLE 15'-30' MONOTUBE ARM
09E08-09F	TYPE 10 SPECIAL POLE 35' MONOTUBE ARM
09E08-09G	TYPE 10 SPECIAL POLE 40' MONOTUBE ARM
09E08-09H	TYPE 10 SPECIAL POLE 45' MONOTUBE ARM
09E08-09K	GENERAL NOTES,HARDWARE DETAILS FOR TYPE 9/10,9/10 SPECIAL,12 & 13 POLES W/MONOTUBE ARMS
09F08-04	LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW ASPHALTIC PAVEMENT)
09F15-04B	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)
09G01-04A	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04B	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04C	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04D	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04E	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04F	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04G	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09H09-02	COMMUNICATION VAULT TYPE 1
11B02-02	CONCRETE MEDIAN NOSE

6

Standard Detail Drawing List

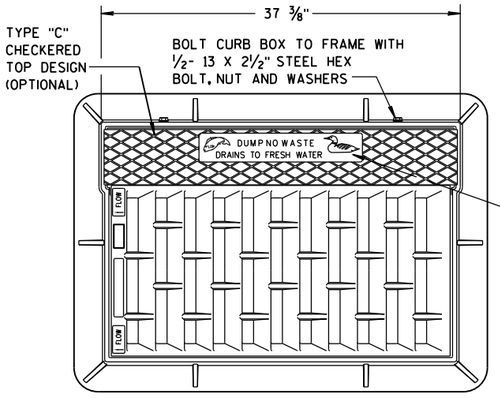
12A04-03	STRUCTURE IDENTIFICATION PLAQUES, RAMP GATES, SIGN BRIDGES & OVERHEAD SIGN SUPPORTS & TRAFFIC SIGNALS
13B01-10	PAVEMENT DETAILS FOR RAILROAD APPROACH
13B02-09A	CONCRETE PAVEMENT APPROACH SLAB
13C01-19	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C13-09	URBAN DOWELED CONCRETE PAVEMENT
13C14-07A	BASE PATCHING CONCRETE
13C14-07B	BASE PATCHING CONCRETE
13C14-07C	BASE PATCHING CONCRETE
13C18-07A	CONCRETE PAVEMENT JOINTING
13C18-07B	CONCRETE PAVEMENT STEEL REINFORCEMENT
13C18-07C	CONCRETE PAVEMENT JOINT TYPES
13C18-07D	CONCRETE PAVEMENT JOINT TYPES AT UTILITY FIXTURES
13C18-07G	CONCRETE PAVEMENT JOINTING ACCELERATION/DECELERATION LANE
13C19-03	HMA LONGITUDINAL JOINTS
14A02-01	TREE PLANTING DETAIL
14B07-15A	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15B	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15C	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15D	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15E	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15G	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15H	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15I	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B08-02A	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02B	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02C	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02D	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02E	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-08C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C02-08D	ON RAMP LANE CLOSURE
15C02-08F	ADVANCED WIDTH RESTRICTION SIGNING
15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C05-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C07-15A	PAVEMENT MARKING SYMBOLS
15C07-15B	PAVEMENT MARKING WORDS
15C07-15C	PAVEMENT MARKING ARROWS
15C08-20A	LONGITUDINAL MARKING (MAINLINE)
15C08-20B	PAVEMENT MARKING (TURN LANES)
15C08-20C	PAVEMENT MARKING (TURN LANES)
15C09-12A	SIGNING AND PAVEMENT MARKING DETAILS FOR RAILROAD-HIGHWAY GRADE CROSSINGS
15C11-08A	CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST
15C11-08B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-07	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C18-05A	PAVEMENT MARKINGS, MEDIAN ISLANDS
15C18-05B	PAVEMENT MARKINGS, MEDIAN ISLAND NOSE
15C18-05C	PAVEMENT MARKINGS, DOUBLE ARROW WARNING SIGN PLACEMENT
15C19-06A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C19-06B	MOVING PAVEMENT MARKING OPERATION MULTI-LANE UNDIVIDED ROADWAY
15C19-06C	MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY
15C21-10	SIGNING AND MARKING FOR TWO LANE TO FOUR LANE DIVIDED TRANSITIONS
15C29-07A	BICYCLE LANE MARKING
15C33-04	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C35-04A	PAVEMENT MARKING (INTERSECTIONS)
15D06-04	TRAFFIC CONTROL, TWO LANE TWO WAY OPERATION
15D16-04	TRAFFIC CONTROL, EXIT RAMP CLOSURE
15D20-05A	TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
15D20-05B	TRAFFIC CONTROL, SINGLE RIGHT LANE CLOSURE, UNDIVIDED NON-FREEWAY/EXPRESSWAY
15D20-05C	TRAFFIC CONTROL, SINGLE LEFT LANE CLOSURE, UNDIVIDED NON-FREEWAY/EXPRESSWAY
15D21-07A	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D21-07B	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D22-04	TRAFFIC CONTROL, TWO LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
15D27-03	TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH

6

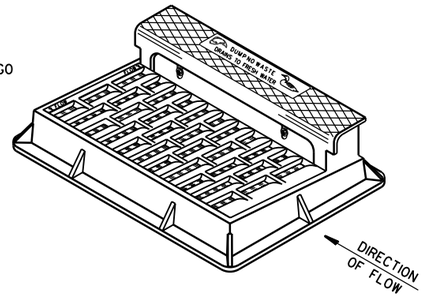
Standard Detail Drawing List

15D28-04	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D29-06	TRAFFIC CONTROL, VEHICLE ENTRANCE/EXIT OR HAUL ROAD
15D30-06A	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-06B	TRAFFIC CONTROL, TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMMODATION
15D30-06C	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS
15D39-02	TRAFFIC CONTROL, DROP-OFF SIGNING
15D40-02A	TRAFFIC CONTROL, FULL LANE SHIFT NON-FREEWAY OR MULTILANE DIVIDED 45 MPH AND UNDER
15D40-02C	TRAFFIC CONTROL, PARTIAL LANE SHIFT NON-FREEWAY OR MULTILANE DIVIDED 45 MPH AND UNDER
15D41-01	TRAFFIC CONTROL, MULTIPLE LANE SHIFT, MULTILANE DIVIDED ROAD
15D44-02	TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES
15D45-03	TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH LOOSE GRAVEL
15D46-01	TRAFFIC CONTROL, ONE - WAY SIGNING
15D47-01B	TRAFFIC CONTROL, INGRESS/EGRESS WITHOUT BARRIER
15D50-01A	TRAFFIC CONTROL, ADDED LANE CLOSURE WITHOUT LANE SHIFT
15D50-01B	TRAFFIC CONTROL, ADDED LANE CLOSURE WITH LANE SHIFT

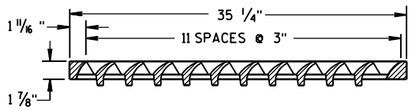
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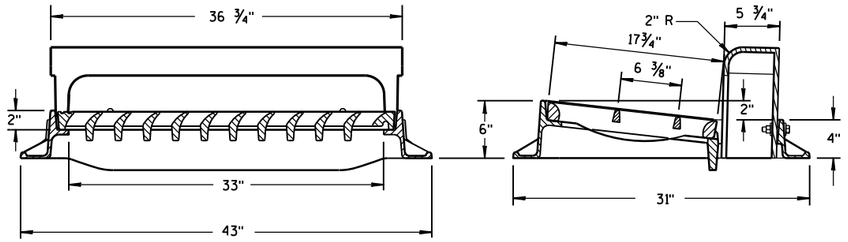


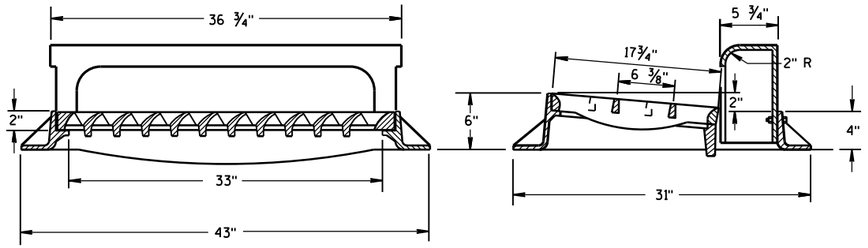
NOTE:
GRATE IS REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

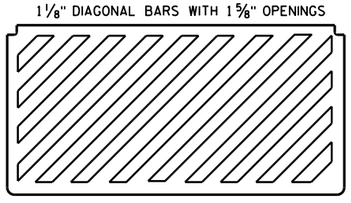






TYPE "H"

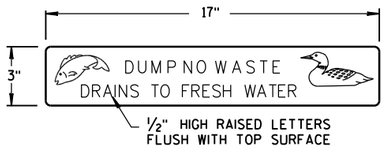
NOTE: EITHER CASTING IS ACCEPTABLE



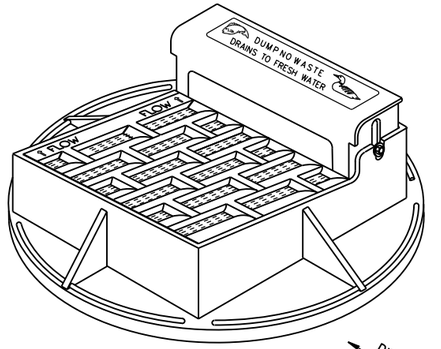
SPECIAL GRATE FOR TYPE "H" COVER

(MEASURES 35 1/4" X 17 3/4" X 2")

(NOTED AS TYPE H-S ON DRAINAGE TABLE)



LOGO DETAIL



NOTE: CURB BOX ADJUSTABLE 4" TO 9"

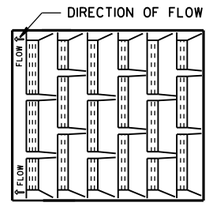
NOTE:
GRATE IS REVERSIBLE.

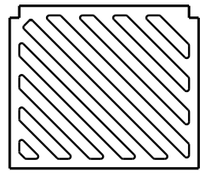
GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

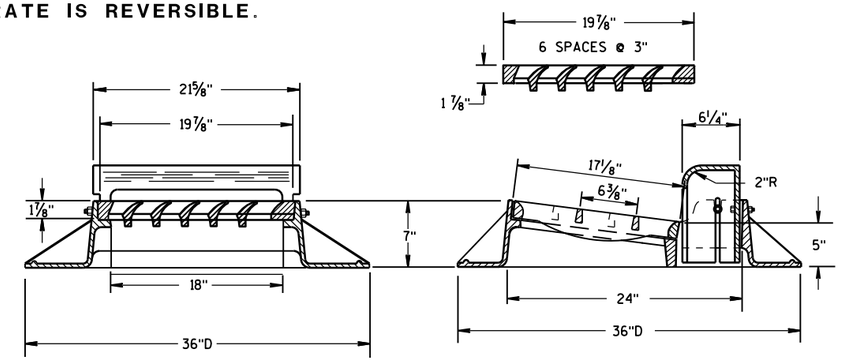




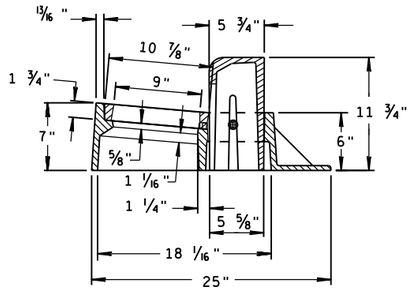
SPECIAL GRATE FOR TYPE "A" COVER

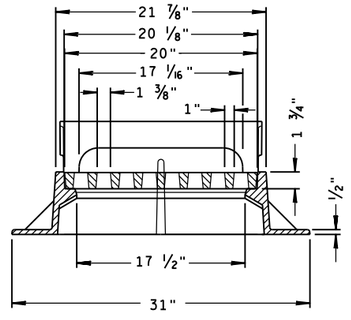
(MEASURES 19 3/4" X 17" X 1 7/8")

(NOTED AS TYPE A-S ON DRAINAGE TABLE)

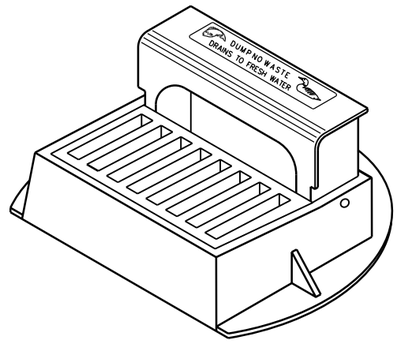


TYPE "A"





TYPE "Z"

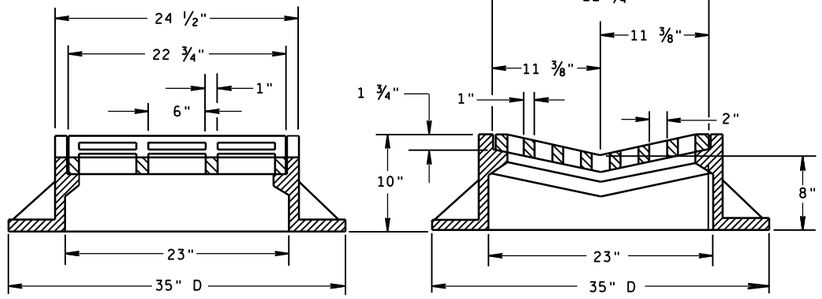


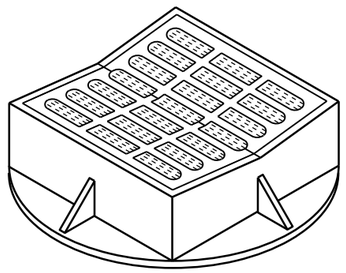
INLET COVERS
TYPE A, H, A-S, H-S & Z

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

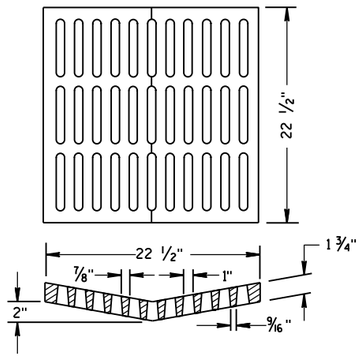
APPROVED
11-27-13 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 A 5-19a



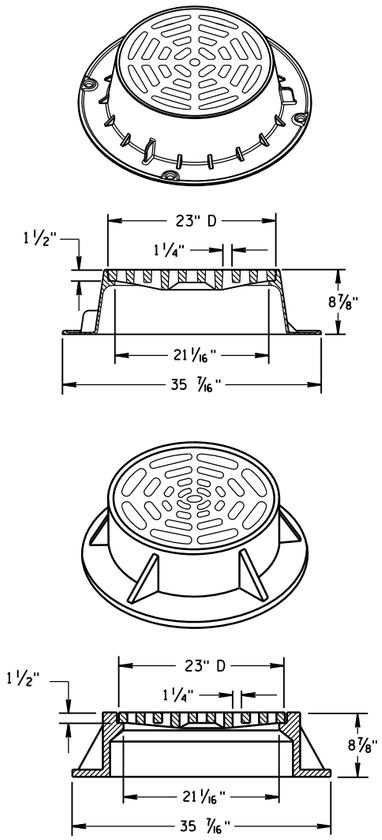


TYPE "B"



ALTERNATIVE GRATE FOR TYPE "B" COVER

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS POSSIBLE.
NOTED AS TYPE B-A ON THE DRAINAGE TABLE



TYPE "C"

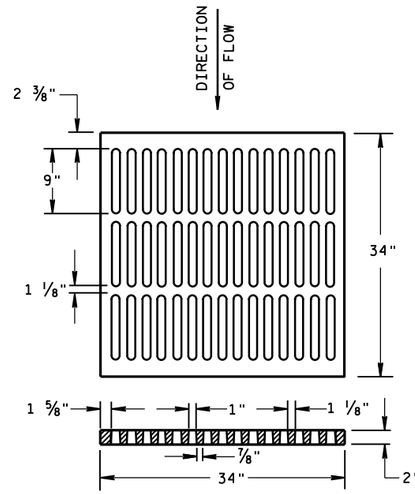
NOTE: EITHER CASTING IS ACCEPTABLE

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

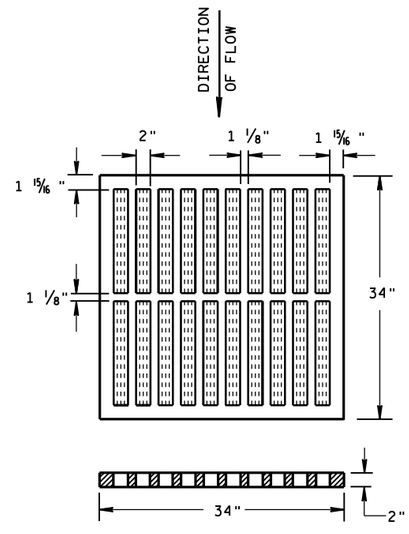
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



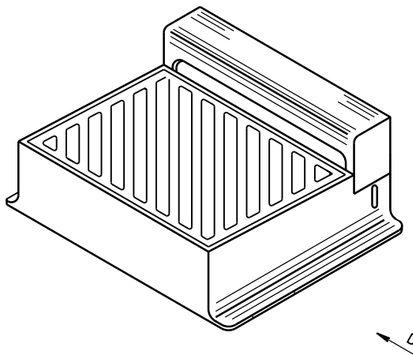
ALTERNATIVE TYPE "MS"

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS PERMITTED
NOTED AS TYPE MS-A ON THE DRAINAGE TABLE



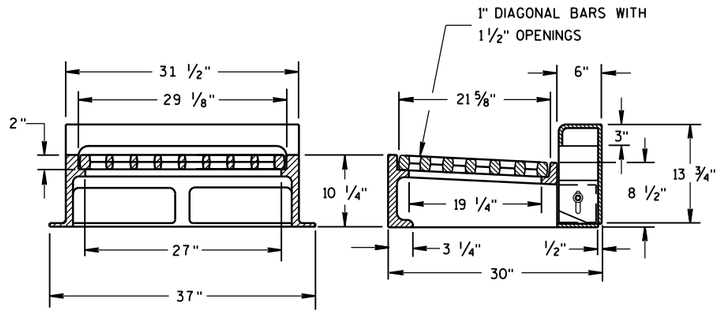
TYPE "MS"

USE ON FREEWAYS AND EXPRESSWAYS
NOTED AS TYPE MS ON DRAINAGE TABLE



DIRECTION OF FLOW

DIAGONAL SLOTS, SHALL BE ORIENTED TO THE DIRECTION OF FLOW AS ILLUSTRATED. GRATES ARE MANUFACTURED TO BE REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

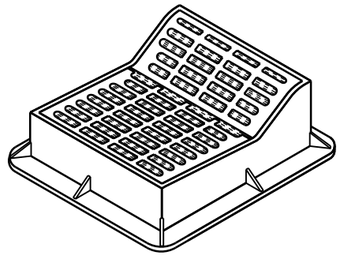
TYPE "WM"

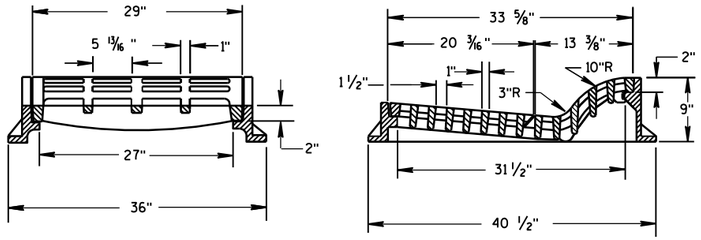
INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

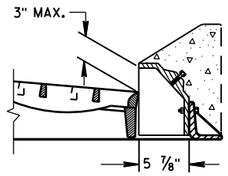
6
S.D.D. 8 A 5-19b





TYPE "F"

USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.



ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

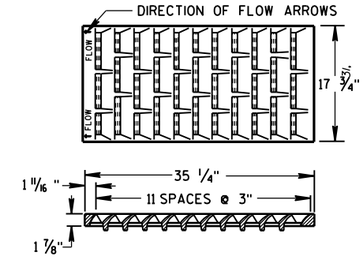
USE WITH TYPES G & J CONCRETE CURB & GUTTER, 30 INCH
NOTED AS TYPE HM-GJ ON DRAINAGE TABLE

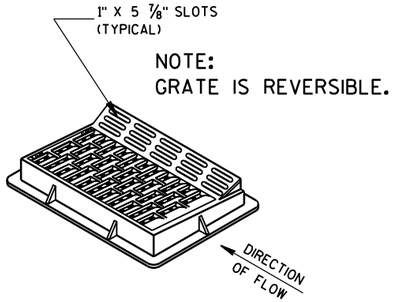
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM-GJ" COVER
NOTED AS TYPE HM-GJ-S ON DRAINAGE TABLE

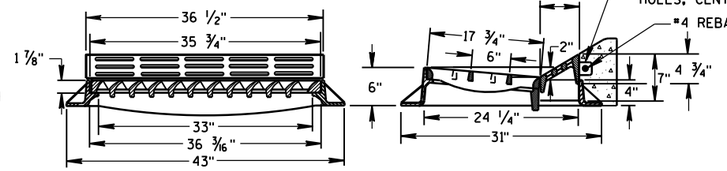
GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.



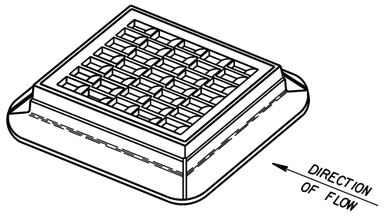


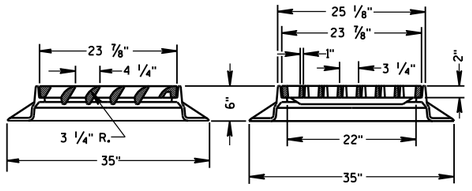


TYPE "HM"

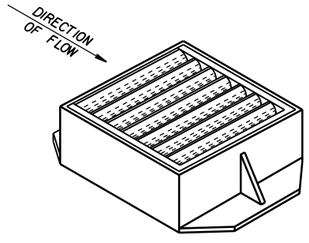
USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.

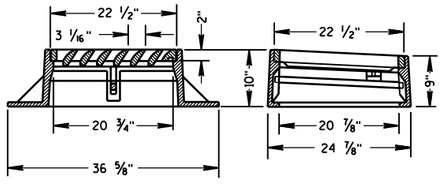
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM" COVER
NOTED AS TYPE HM-S ON DRAINAGE TABLE



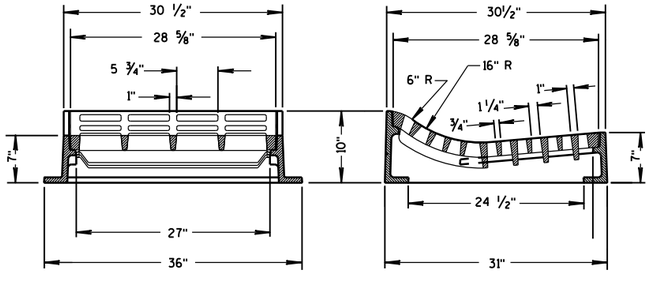


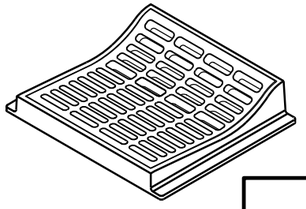
TYPE "S"





TYPE "V"





TYPE "T"

USE WITH TYPES R & T CONCRETE CURB & GUTTER, 36 INCH.

INLET COVERS
TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S

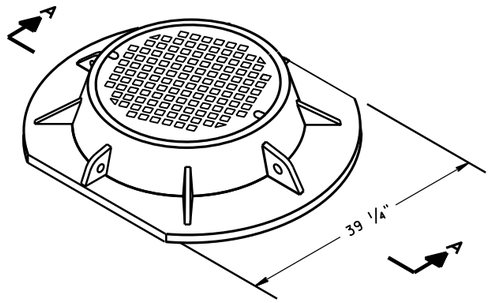
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

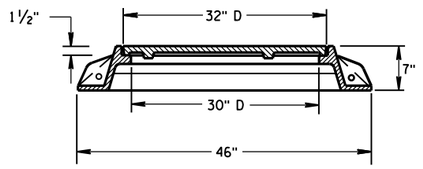
APPROVED
11/27/2013
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

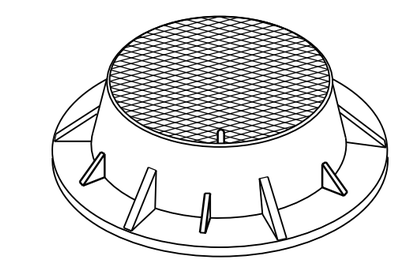
FHWA

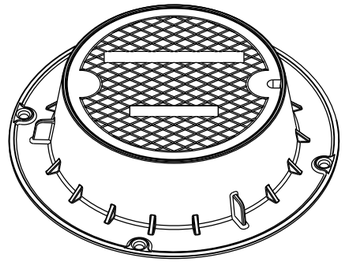
6
S.D.D. 8 A 5-19c

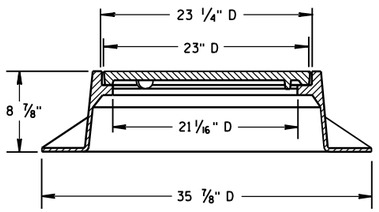


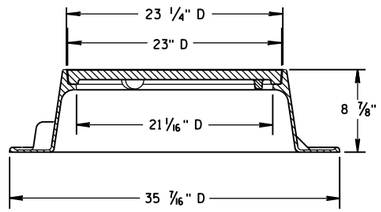


SECTION A-A
TYPE "K"









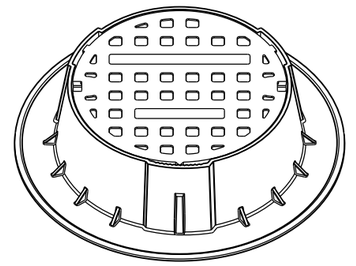
TYPE "J"
NOTE: EITHER CASTING IS ACCEPTABLE

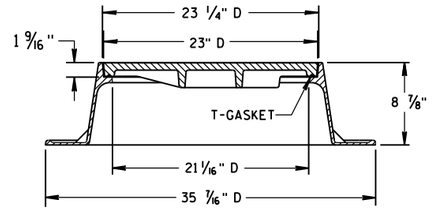
GENERAL NOTES

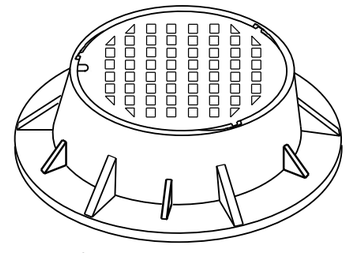
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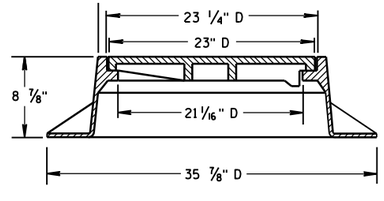
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

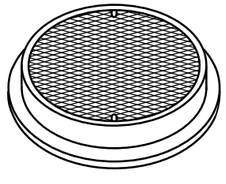


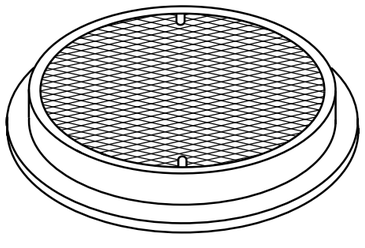


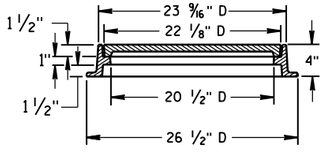




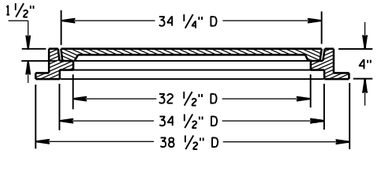
TYPE "J" SPECIAL
TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)
NOTE: EITHER CASTING IS ACCEPTABLE



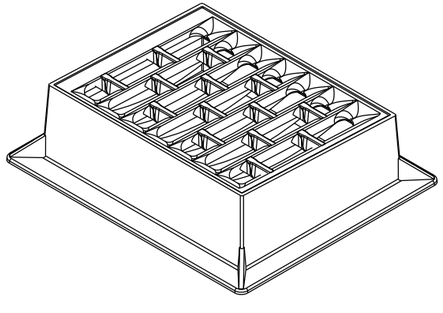


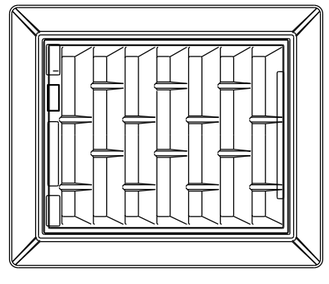


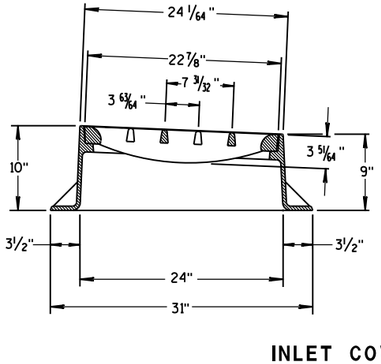
TYPE "L"

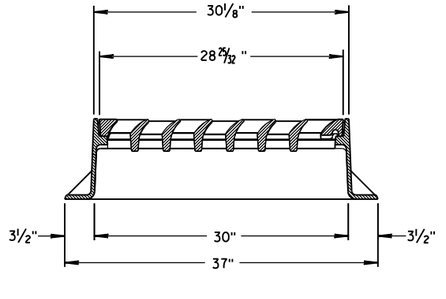


TYPE "M"









INLET COVER TYPE "BW"

INLET COVER TYPE BW
MANHOLE COVERS, TYPE K, J, J-S, L & M

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013
DATE
FHWA

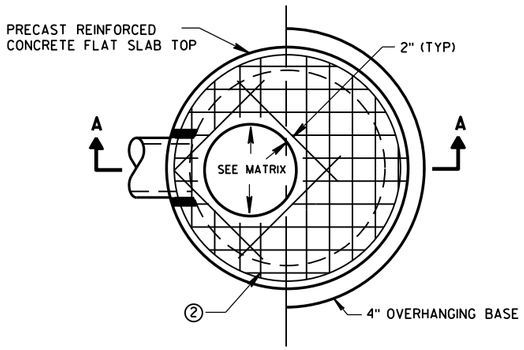
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

6

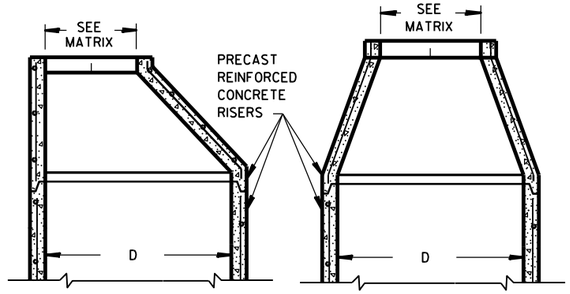
S.D.D. 8 A 5-19d

6

S.D.D. 8 A 5-19d

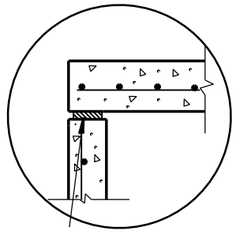


PLAN VIEW CIRCULAR OPENING

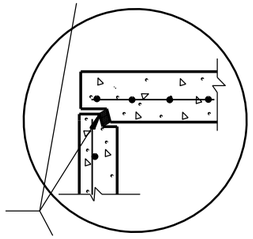


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

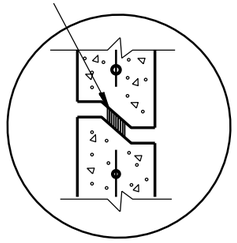


TOP WITH PLAIN END JOINT



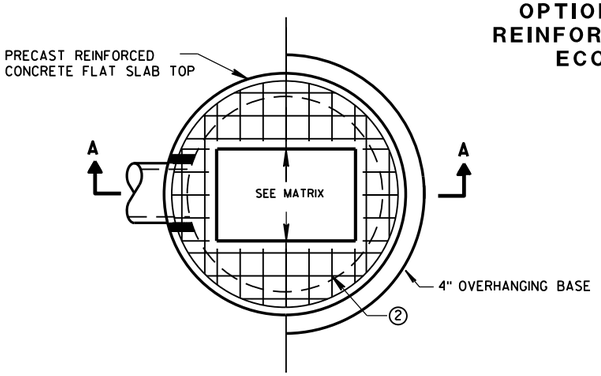
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT

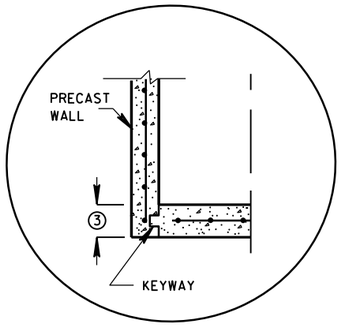


RISER WITH TONGUE AND GROOVE JOINT

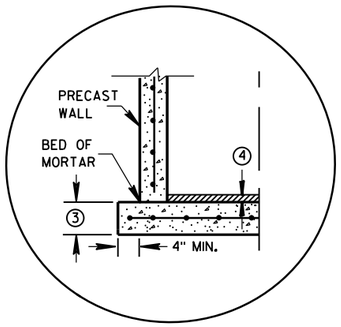
DETAIL "B"



PLAN VIEW RECTANGULAR OPENING

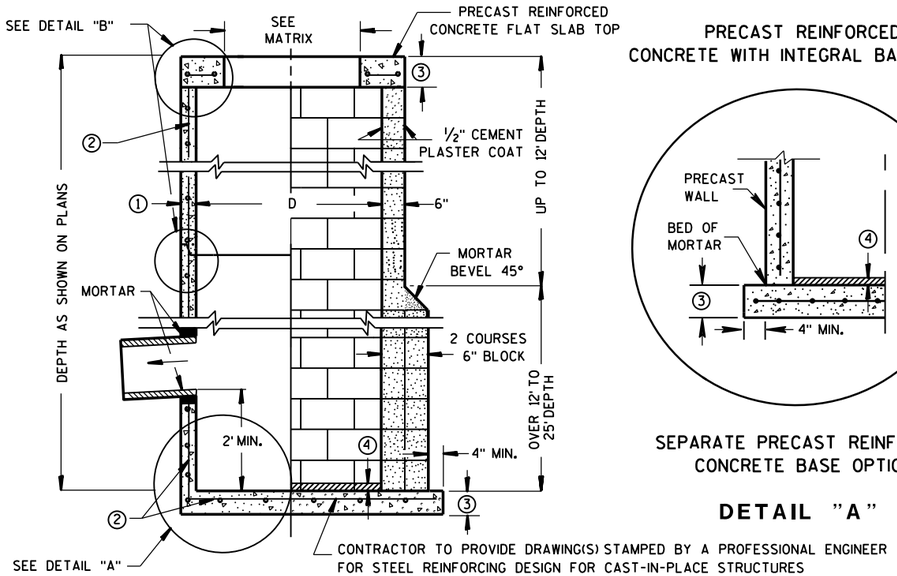


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

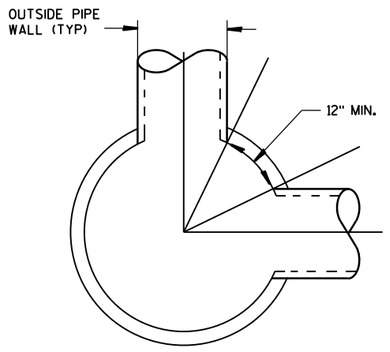
DETAIL "A"



SECTION A-A

PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②



DETAIL "C"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST CATCH BASIN UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONCRETE CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED CONCRETE FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½ INCH AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT AND 7 INCHES FOR 6-FT DIAMETER PRECAST CATCH BASINS.

② FOR PRECAST CATCH BASINS PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

③ PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS OF 8".

④ 1" CONCRETE KEY POURED AFTER INSTALLATION. 2' SUMP MEASURED FROM TOP OF KEY.

CATCH BASIN COVER OPENING MATRIX

CATCH BASIN SIZE	INLET COVER TYPE	ALL A'S	ALL B'S	BW	C	F	ALL H'S	S	T	V	WM	Z
	OPENING SIZE (FT)											
3-FT	2X2	X	X					X		X		
	2 DIA.				X							X
4-FT-6-FT	2X2	X	X					X		X		
	2X2.5			X				X	X	X	X	
	2 DIA.				X							X
	2X3						X					
	2.5X3					X						

PIPE MATRIX

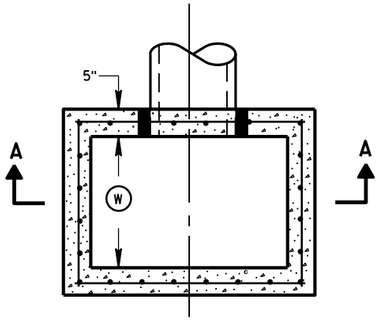
CATCH BASIN SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	30

CATCH BASINS 3-FT, 4-FT, 5-FT AND 6-FT DIAMETER

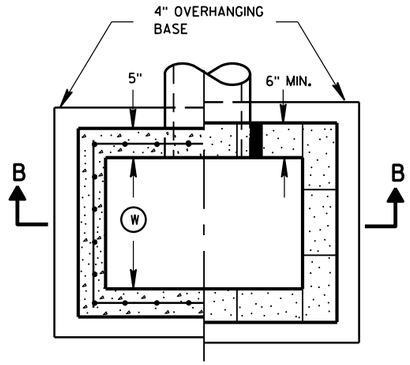
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR
FHWA

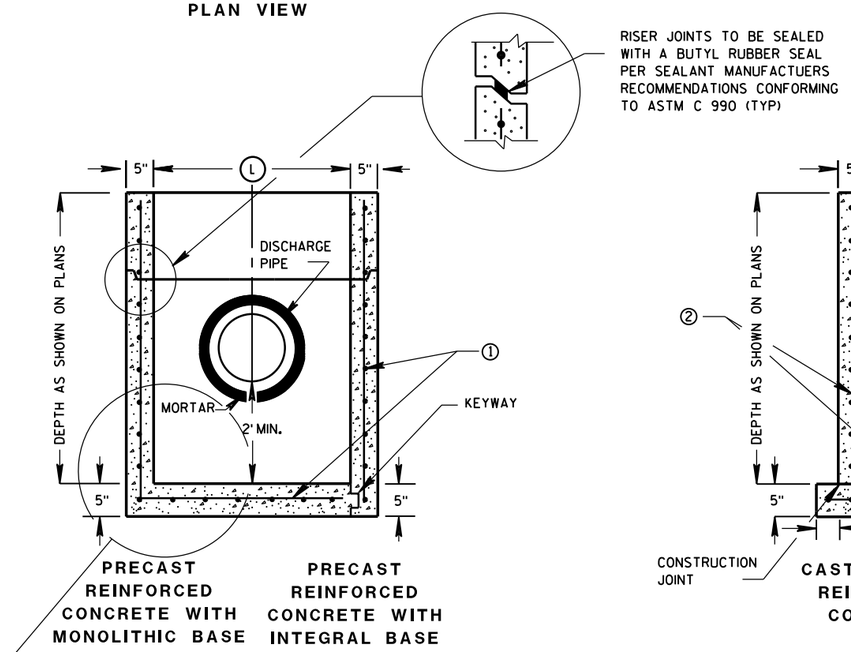
CATCH BASINS 3-FT, 4-FT, 5-FT AND 6-FT DIAMETER



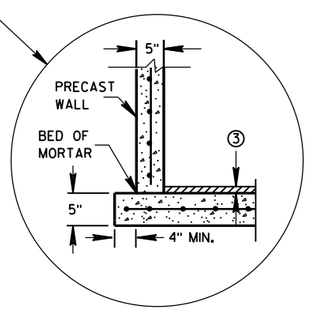
PLAN VIEW



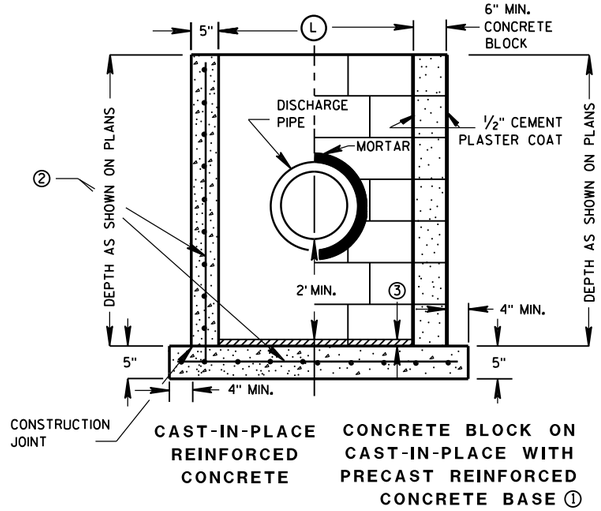
PLAN VIEW



SECTION A-A



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION



SECTION B-B

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST CATCH BASIN UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL PRECAST CATCH BASIN UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATES THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND CONCRETE BLOCK INSTALLATIONS.
4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED.
OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST CATCH BASINS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

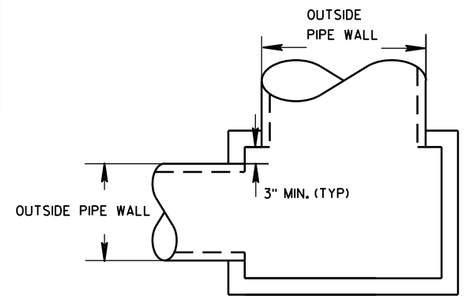
③ 1" CONCRETE KEY POURED AFTER INSTALLATION. 2' SUMP MEASURED FROM TOP OF KEY.

CATCH BASIN COVER MATRIX

CATCH BASIN SIZE		INLET COVER TYPE	F	ALL H'S
	WIDTH (W) (FT)	LENGTH (L) (FT)		
2X3-FT	2	3		X
2.5X3-FT	2.5	3	X	

PIPE MATRIX

CATCH BASIN SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	WIDTH (IN)	LENGTH (IN)
2X3-FT	12	24
2.5X3-FT	18	24



DETAIL "A"

CATCH BASINS 2X3-FT AND 2.5X3-FT

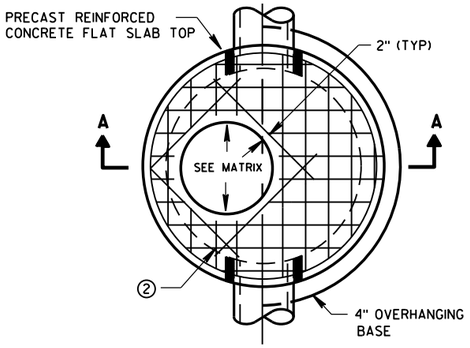
CATCH BASINS 2X3-FT AND 2.5X3-FT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

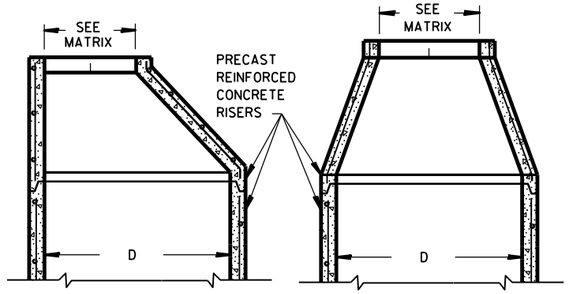
APPROVED
Sept., 2016
DATE
FHWA

/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

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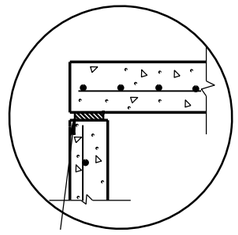


PLAN VIEW CIRCULAR OPENING

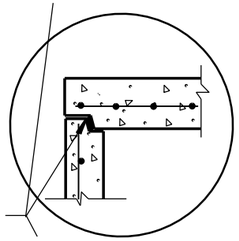


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

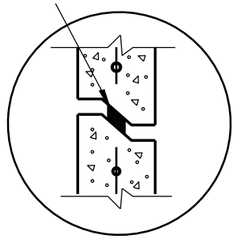


TOP WITH PLAIN END JOINT



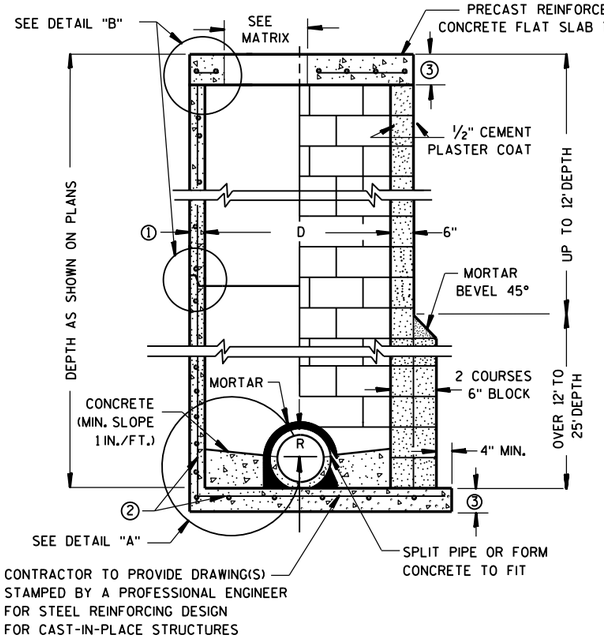
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT



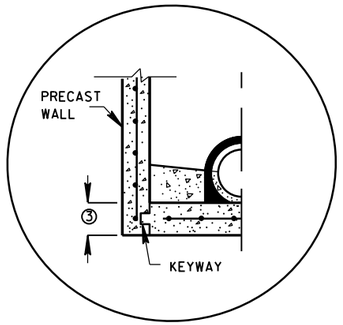
RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

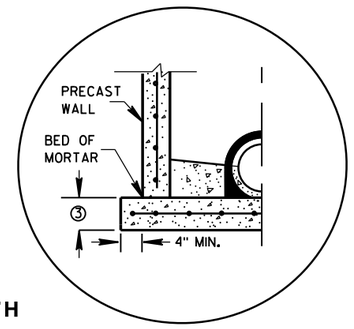


PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

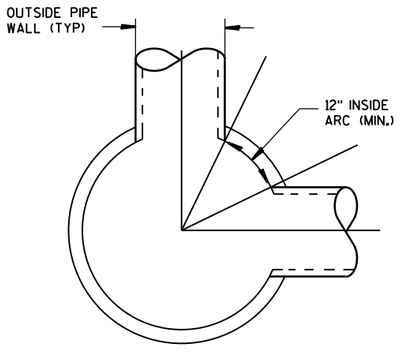


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "C"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST MANHOLE UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½" AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT, 7 INCHES FOR 6-FT, 8 INCHES FOR 7-FT AND 9 INCHES FOR 8-FT DIAMETER PRECAST MANHOLES.

② FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

③ PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS OF 8".

MANHOLE COVER OPENING MATRIX

MANHOLE COVER TYPE	C	ALL J'S	K	L	M
OPENING SIZE (FT)					
2 DIA.	X	X		X	
3 DIA.			X		X

PIPE MATRIX

MANHOLE SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	36
7-FT	48	36
8-FT	60	42

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

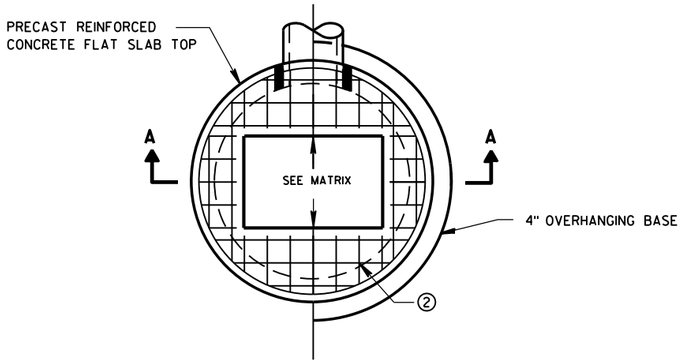
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Sept., 2016
DATE

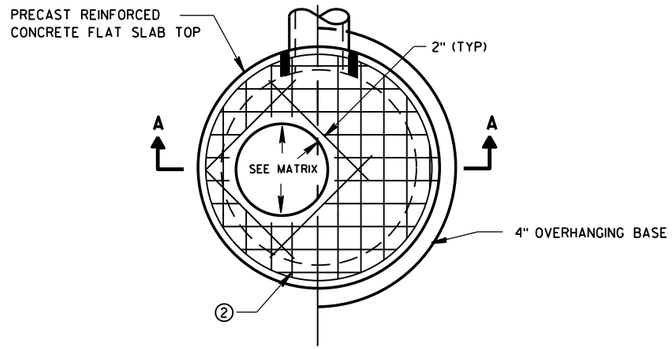
/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

FHWA

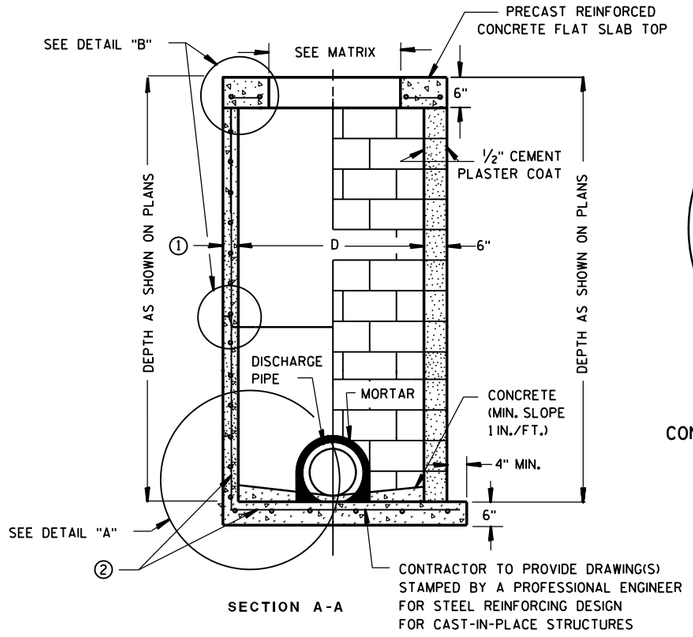
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PLAN VIEW RECTANGULAR OPENING



PLAN VIEW CIRCULAR OPENING

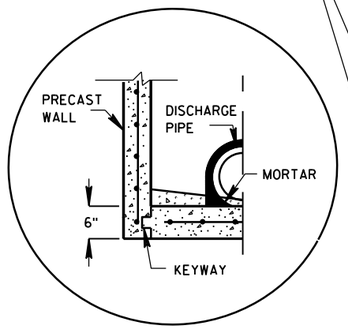


SECTION A-A

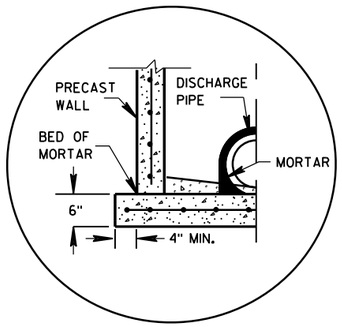
PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

CIRCULAR INLETS W/ FLAT TOP

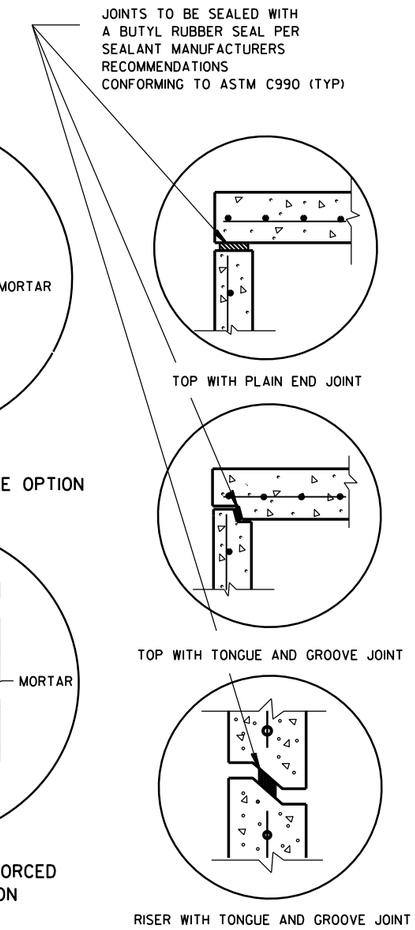


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "B"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

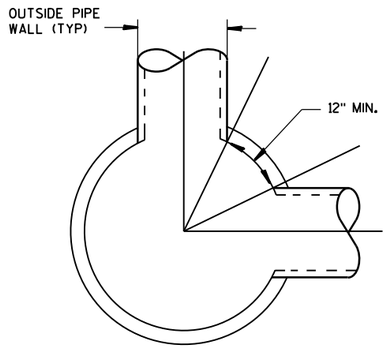
FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4-IN FOR 3-FT DIAMETER AND 5-IN FOR 4-FT DIAMETER PRECAST INLETS.

② FOR PRECAST CATCH BASINS PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

INLET COVER OPENING MATRIX

	INLET COVER TYPE	ALL A'S	ALL B'S	BW	C	F	ALL H'S	S	T	V	WM	Z
INLET SIZE	OPENING SIZE (FT)											
3-FT	2 DIA.				X							X
	2X2	X	X					X		X		
4-FT	2 DIA.				X							X
	2X2	X	X					X		X		
	2X2.5			X				X	X	X	X	
	2X3						X					
	2.5X3					X						



DETAIL "C"

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18

INLETS 3-FT AND 4-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept.. 2016 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR
FHWA

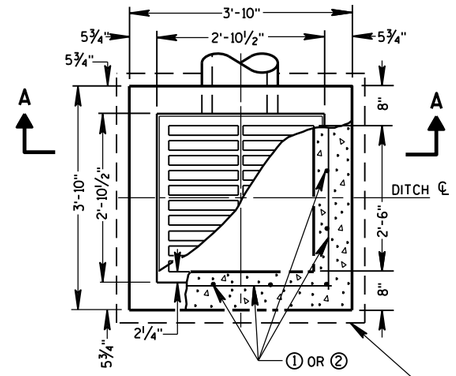
INLETS 3-FT AND 4-FT DIAMETER

6

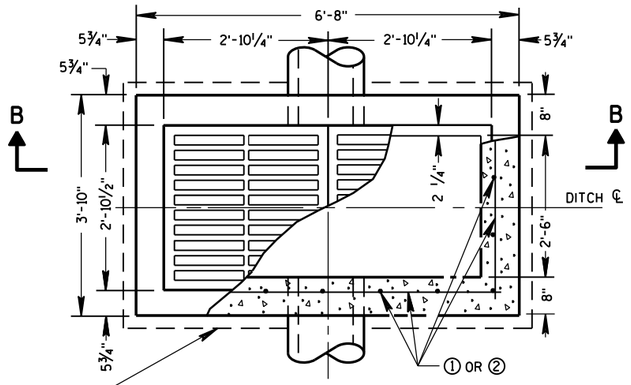
S.D.D. 8 C 6-2

6

S.D.D. 8 C 6-2

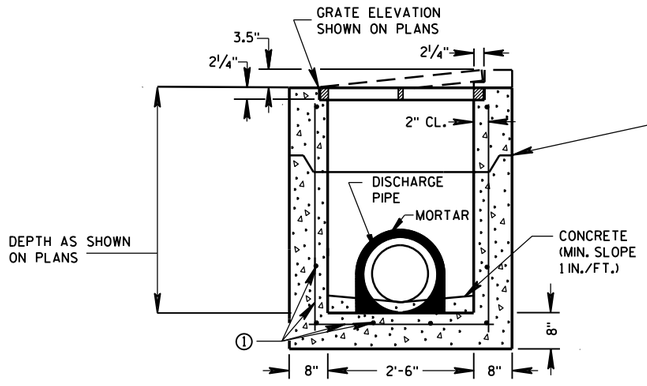


PLAN VIEW

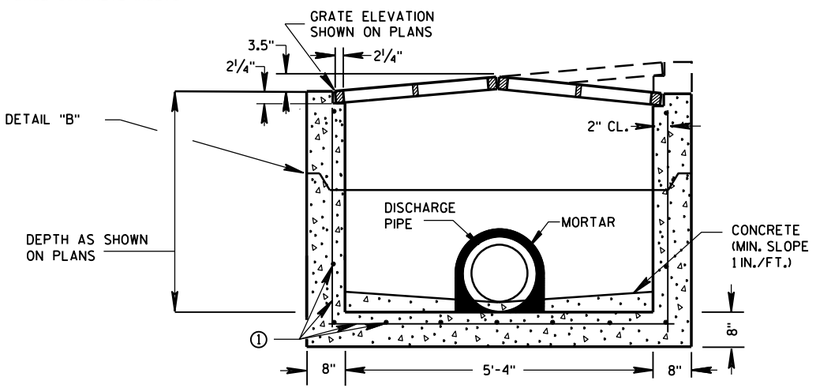


PLAN VIEW

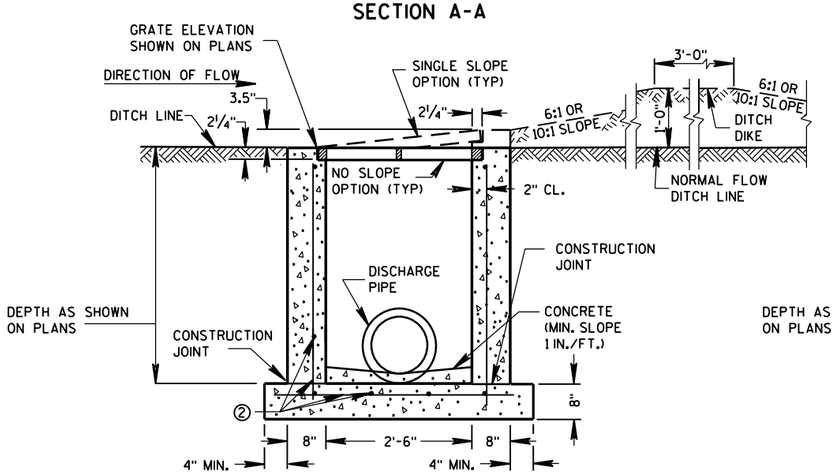
4" OVERHANGING BASE ON REINFORCED CAST-IN-PLACE CONCRETE INLETS



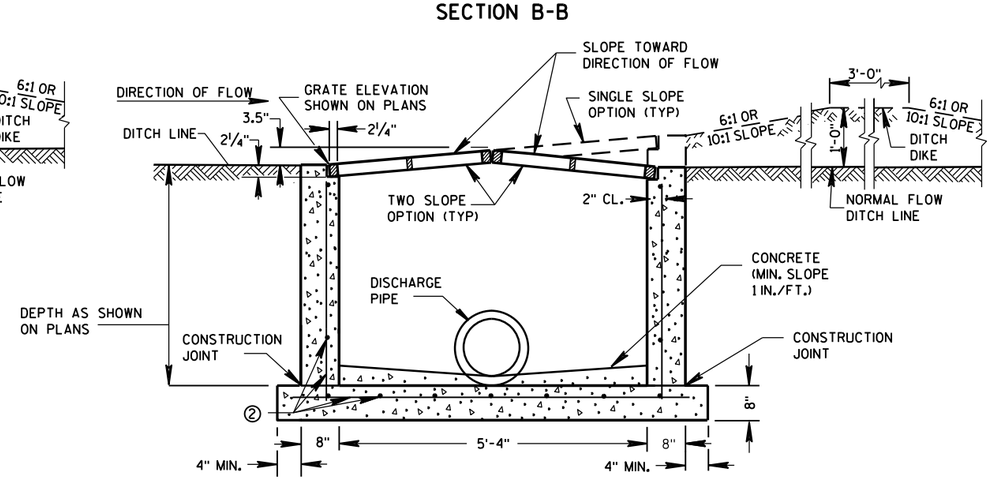
PRECAST REINFORCED CONCRETE SECTION A-A



PRECAST REINFORCED CONCRETE SECTION B-B



REINFORCED CAST-IN-PLACE CONCRETE SECTION A-A



REINFORCED CAST-IN-PLACE CONCRETE SECTION B-B

INLETS MEDIAN 1 GRATE

INLETS MEDIAN 2 GRATE

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLETS WHICH MAY INCLUDE PRECAST REINFORCED CONCRETE INLETS, SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL MEDIAN INLETS ARE DESIGNATED ON THE PLANS AS "INLETS, 1G-MS", ETC. THE FIRST NUMBER AND LETTER DESIGNATE THE TYPE OF STRUCTURE, AND THE FOLLOWING LETTERS DESIGNATE THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

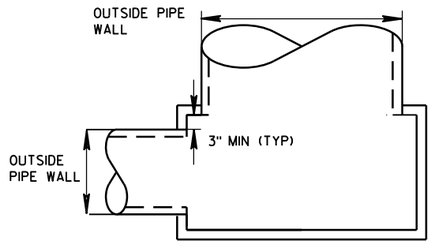
MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

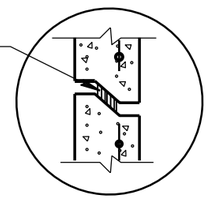
PIPE MATRIX

	MAXIMUM INSIDE PIPE DIAMETER	
INLET SIZE	WIDTH (IN)	LENGTH (IN)
1 GRATE	18	18
2 GRATE	18	42



DETAIL "A"

JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP)



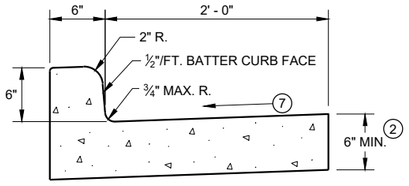
DETAIL "B"

INLETS MEDIAN 1 AND 2 GRATE

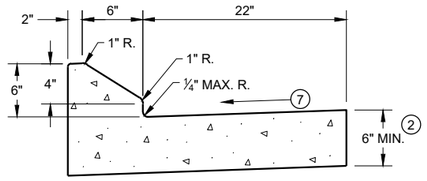
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016
DATE
FHWA

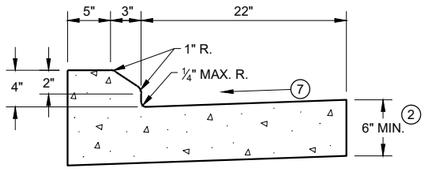
/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR



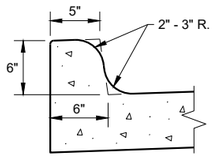
TYPES A (1) & D



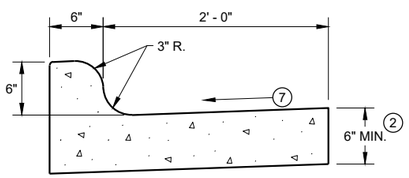
6" SLOPED CURB TYPES G (1) & J



4" SLOPED CURB TYPES G (1) & J

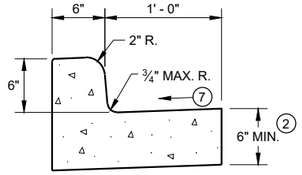


TYPES K (1) & L
(OPTIONAL CURB SHAPE)



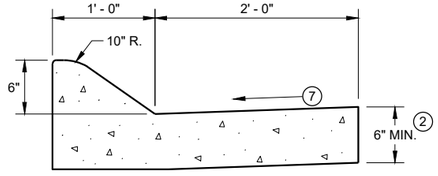
TYPES K (1) & L

CONCRETE CURB AND GUTTER 30"



TYPES A (1) & D

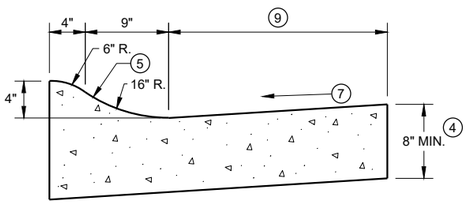
CONCRETE CURB AND GUTTER 18"



6" SLOPED CURB TYPES A (1) & D

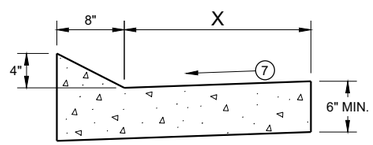
4" SLOPED CURB TYPES A (1) & D

CONCRETE CURB AND GUTTER 36"



4" SLOPED CURB TYPES R (1) & T

TBT & TBTT	X
30"	22"
36"	28"

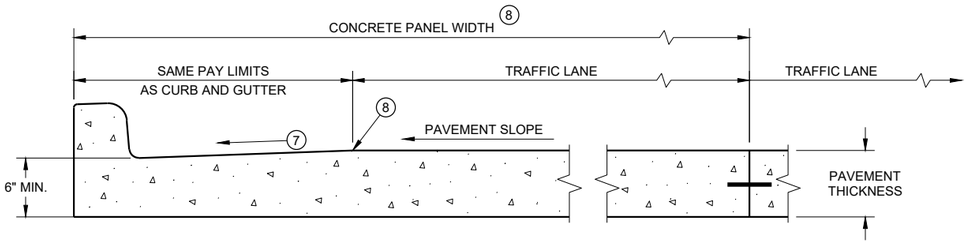


TYPES TBT & TBTT (1)

CONCRETE CURB AND GUTTER

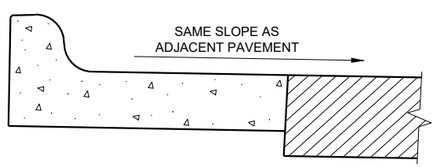
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

PAVEMENT THICKNESS	MAXIMUM PANEL WIDTH
LESS THAN 10"	12'
10" & ABOVE	15'



PARTIAL SECTION OF PAVEMENT *
WITH INTEGRAL CURB AND GUTTER

* BIKE LANE IS NOT SHOWN



REVERSE SLOPE GUTTER (6)
(TYPICAL FOR ALL CURB & GUTTER TYPES)

GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB AND GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB AND GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2' - 0" BEHIND THE BACK OF CURBS.

(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.

(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(3) USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.

(4) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(5) UNLESS OTHERWISE NOTED, FOR STAKING PURPOSES THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

(6) WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.

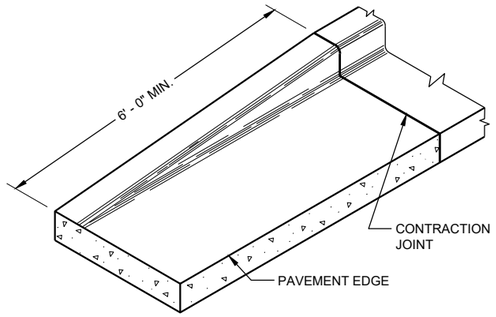
(7) USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.

(8) INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINT(S) ARE NOT ALLOWED WITHIN TRAFFIC LANES AND BIKE LANES. LONGITUDINAL JOINT MAY BE SAWED.

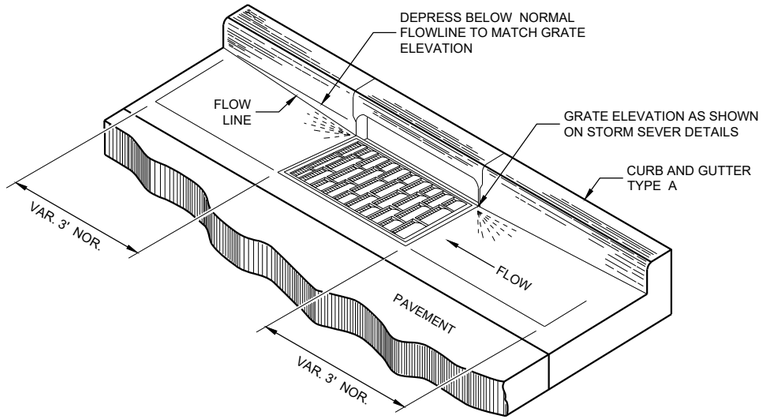
(9) CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE "R" AND "T" = 17 INCHES
CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE "R" AND "T" = 23 INCHES

CONCRETE CURB AND GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



END SECTIONCURB AND GUTTER



DETAIL OF CURB AND GUTTER AT INLETS
(TYPICAL H INLET COVER SHOWN)

GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

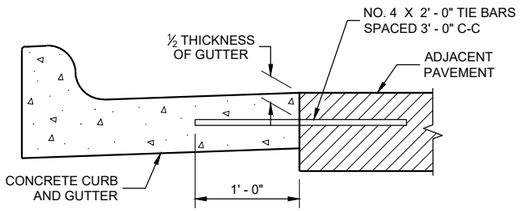
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2' - 0" BEHIND THE BACK OF CURBS.

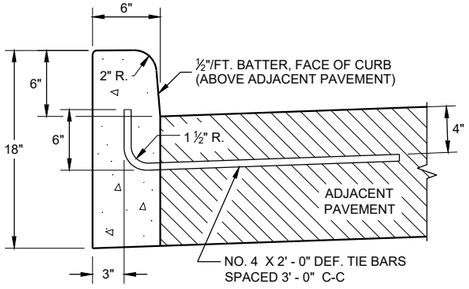
(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.

(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

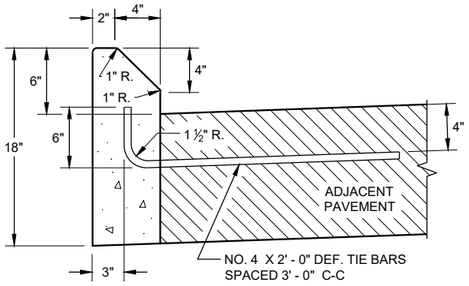
(9) REFER TO SDD 08D18 AND 08D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.



TYPICAL TIE BAR LOCATION (1)

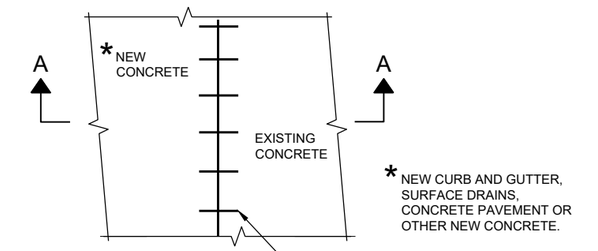


TYPES A (1) & D

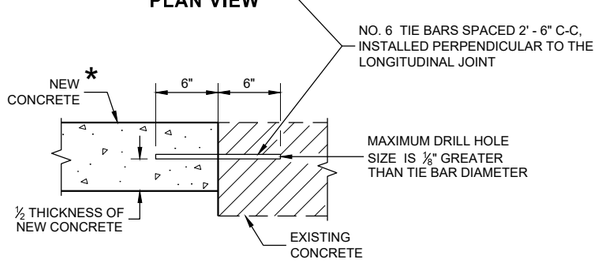


TYPES G (1) & J

CONCRETE CURB

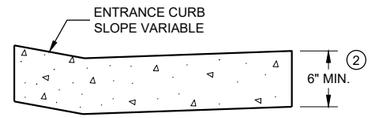


PLAN VIEW



SECTION A - A

TIE BARS DRILLED INTO EXISTING PAVEMENT



DRIVEWAY ENTRANCE CURB (9)
(WHEN DIRECTED BY THE ENGINEER)

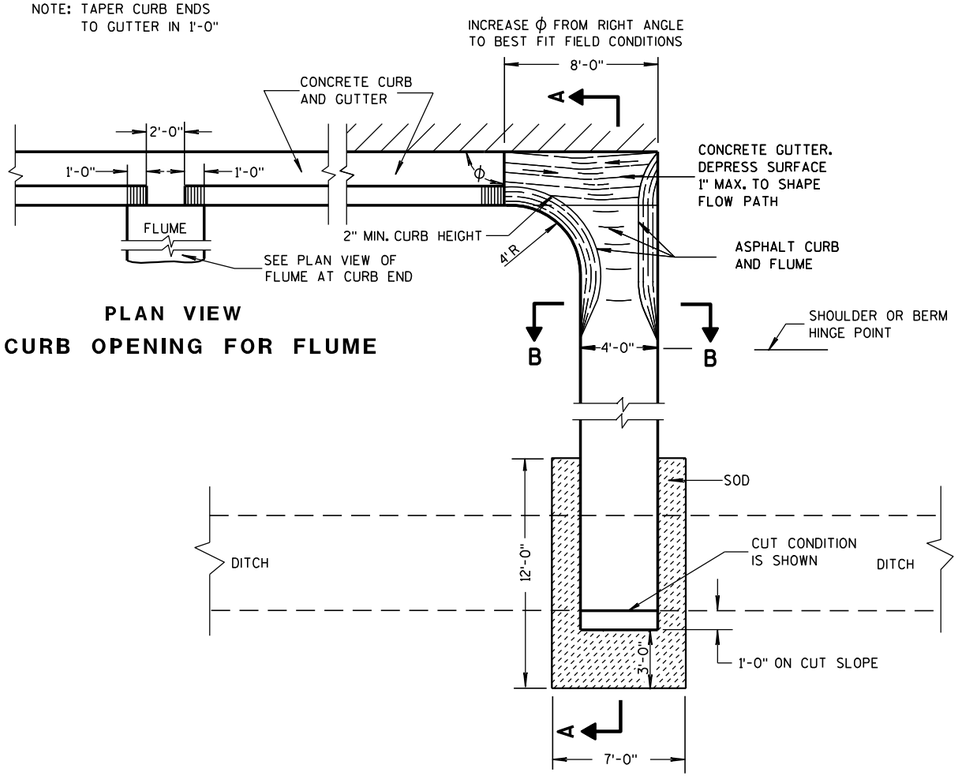
CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2021 — DATE
/S/ Rodnery Taylor — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

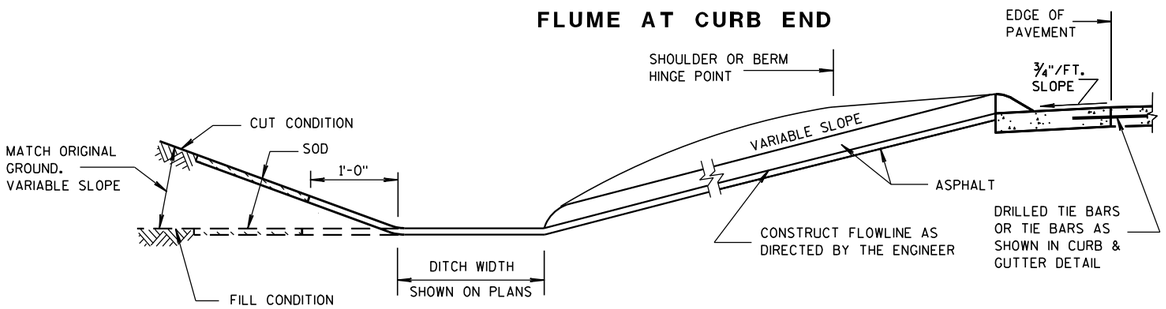
6
SDD08D01 - 22b

ASPHALTIC FLUME

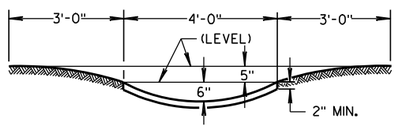


PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END



SECTION A-A



SECTION B-B

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

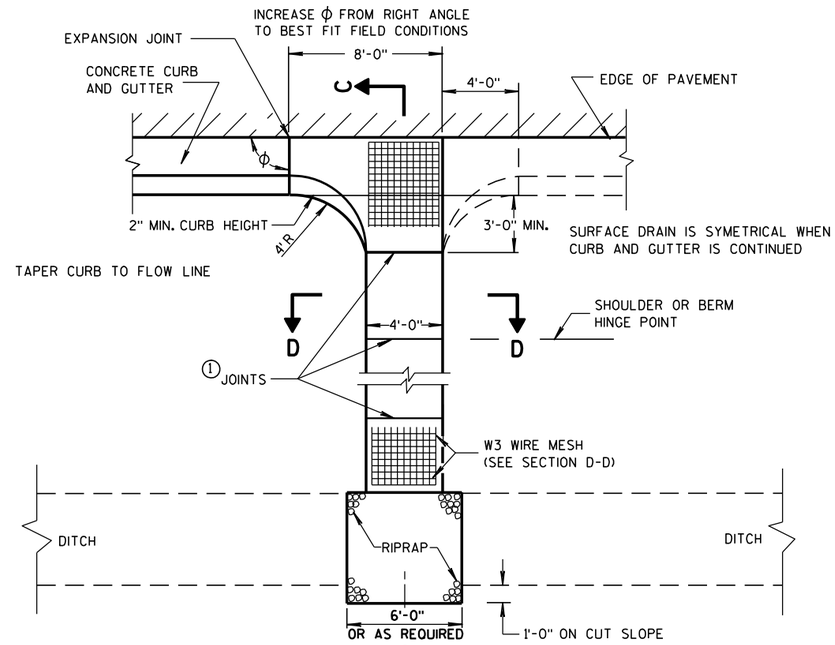
WELDED STEEL WIRE FABRIC SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

① JOINTS SHALL BE $\frac{1}{8}$ TO $\frac{1}{4}$ INCH WIDE BY $1\frac{1}{2}$ INCHES DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.

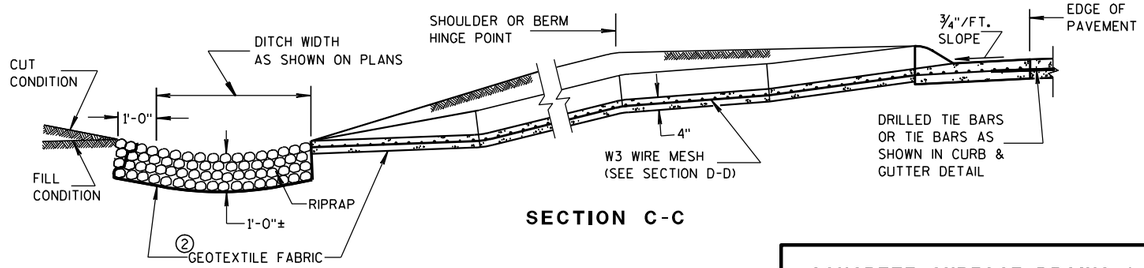
② GEOTEXTILE FABRIC TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.

③ CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED

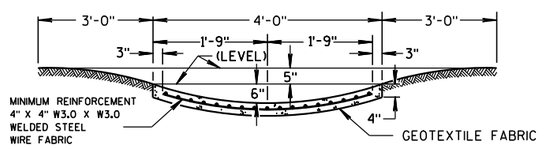
③ CONCRETE SURFACE DRAIN



PLAN VIEW



SECTION C-C



SECTION D-D

CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

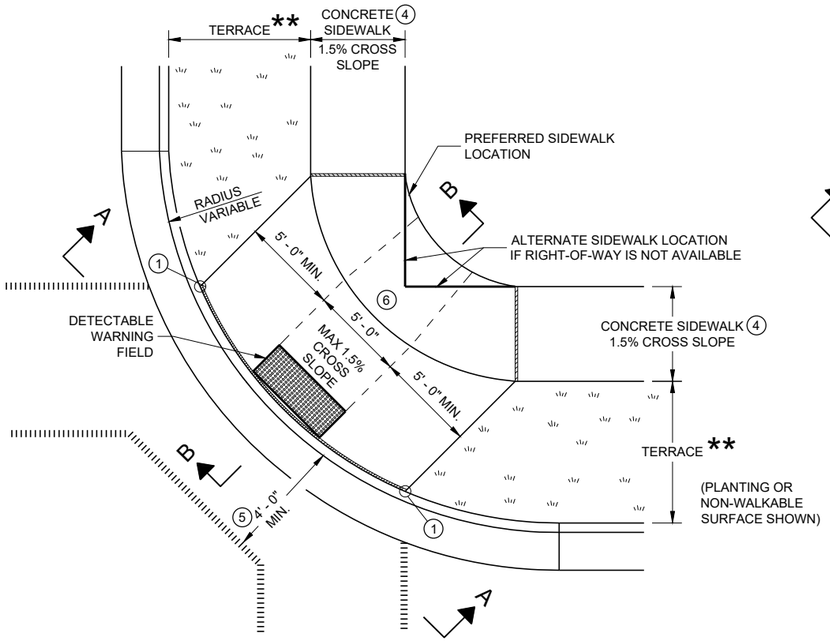
APPROVED

9-4-08 — DATE

/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

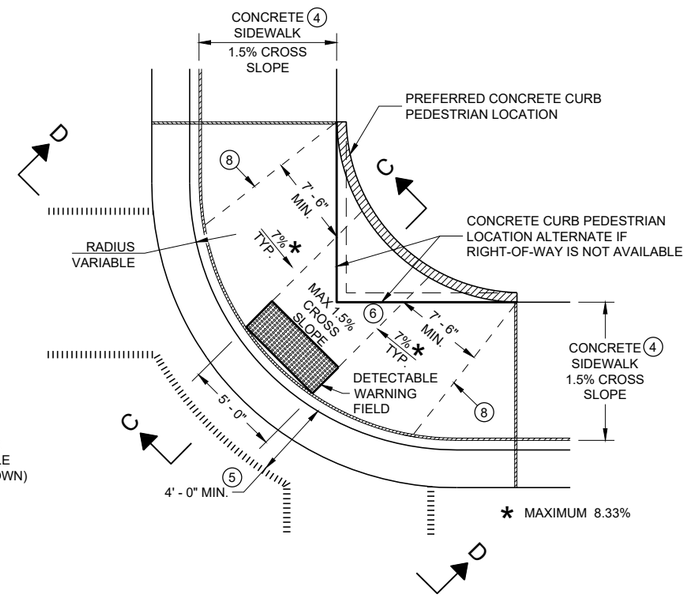
6
S.D.D. 8 D 4-5



PLAN VIEW

CURB RAMP TYPE 1

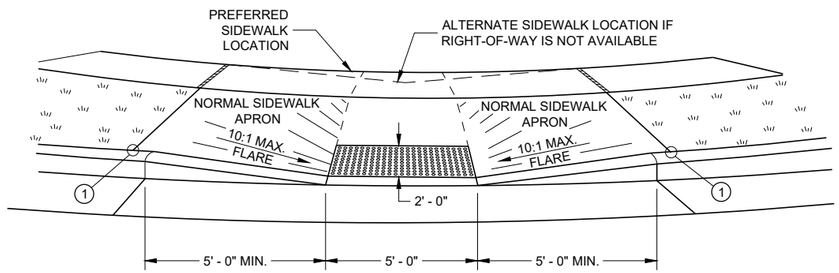
(CENTER OF CORNER RADIUS)



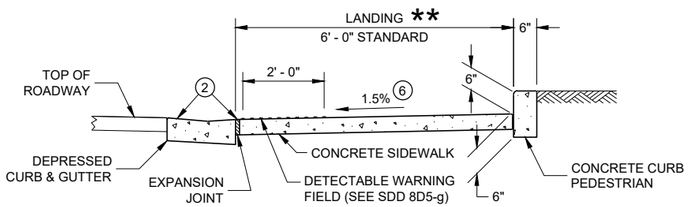
PLAN VIEW

CURB RAMP TYPE 1 - A

(NO TERRACE)

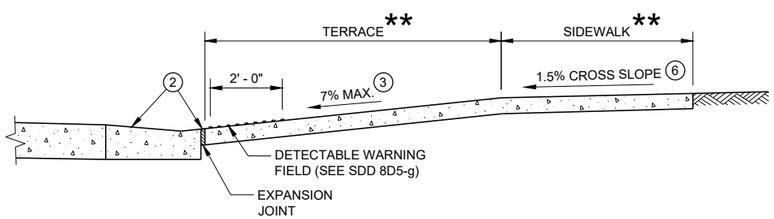


VIEW A - A FOR TYPE 1

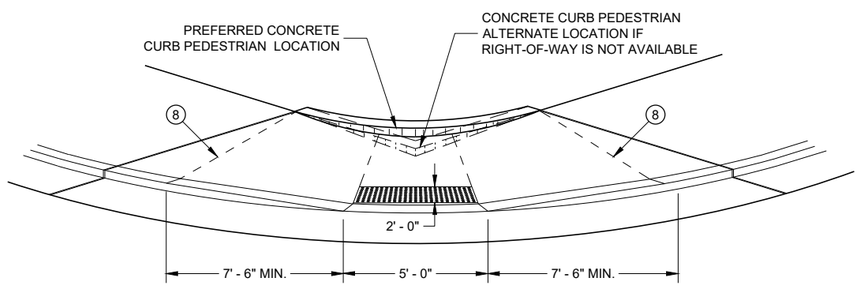


SECTION C - C FOR TYPE 1 - A

** WIDTH SHOWN ELSEWHERE IN THE PLANS



SECTION B - B FOR TYPE 1



VIEW D - D FOR TYPE 1 - A

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

WHEN NECESSARY, THE SIDEWALK ELEVATION MAY BE LOWERED TO MEET THE HIGH POINT ON THE RAMP.

TYPE 1 CURB RAMPS SHALL HAVE A NORMAL SIDEWALK APRON AND CURB ON BOTH SIDES OF RAMP.

DETECTABLE WARNING FILED SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS "CURB RAMP DETECTABLE WARNING FIELD". THE CONCRETE PEDESTRIAN CURB, IF NEEDED, SHALL BE MEASURED AND PAID BY THE LINEAR FOOT AS "CONCRETE CURB PEDESTRIAN". CONCRETE SIDEWALK IN THE CURB RAMP AREA SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS CONCRETE SIDEWALK, INCLUDING THE AREA UNDER THE DETECTABLE WARNING FIELD.

SELECT CURB RAMP DETECTABLE WARNING FIELD MATERIALS AND DEVICES FROM THE DEPARTMENT'S APPROVED MATERIALS LIST. THE COLOR OF THE DETECTABLE WARNING FIELD IS SPECIFIED ELSEWHERE AND IS INCIDENTAL TO THE BID ITEM OF "CURB RAMP DETECTABLE WARNING FIELD"

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

SURFACE TEXTURE OF THE RAMP SHALL BE OBTAINED BY COARSE BROOMING TRANSVERSE TO THE SLOPE OF THE RAMP.

(1) THIS POINT IS AN EXTENSION OF OUTSIDE EDGE OF APPROACHING SIDEWALK WHERE IT MEETS THE BACK OF CONCRETE CURB. POINT LOCATION MAY BE ADJUSTED TO ALIGN WITH BEGINNING OF FULL-HEIGHT CURB IF THIS DISTANCE IS SHORT.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) MAXIMUM 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(5) PROVIDE A LEVEL LANDING IN THE STREET AND GUTTER AREA (2% MAXIMUM SLOPE IN ANY DIRECTION). WHEN THE GUTTER SLOPE EXCEEDS 2%, CONSTRUCT THE LEVEL LANDING IN THE STREET AREA.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

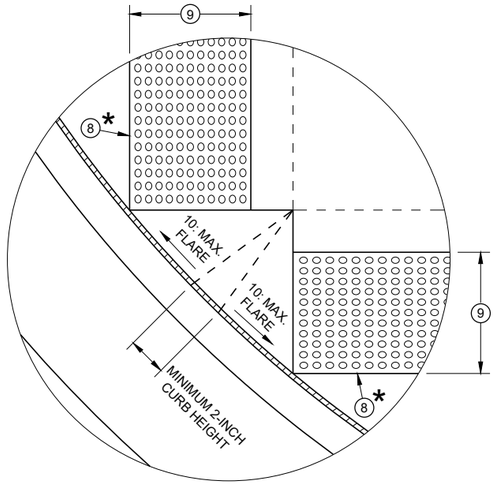
LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

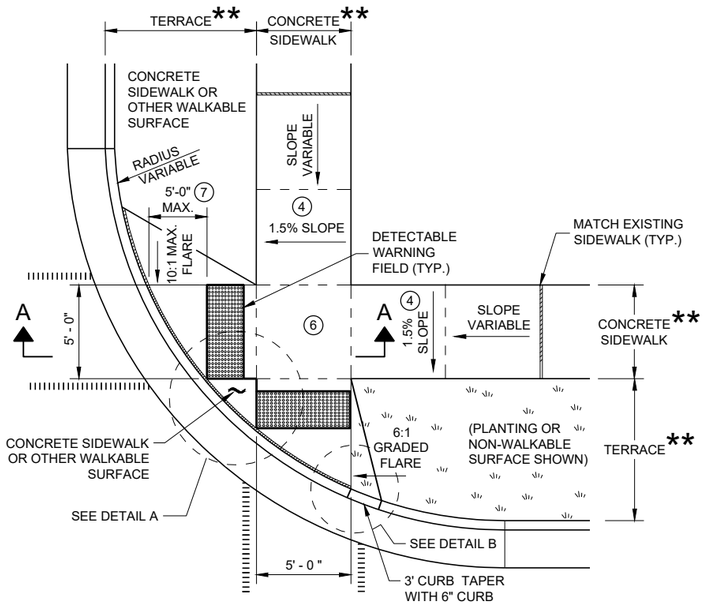
CURB RAMPS
TYPE 1 AND 1-A

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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SDD 08D05 - 20a



DETAIL A



PLAN VIEW
CURB RAMP TYPE 2
(CENTER OF CORNER RADIUS)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE (2.67% OR LESS) AND NOT TO EXCEED 11% GRADE CHANGE.

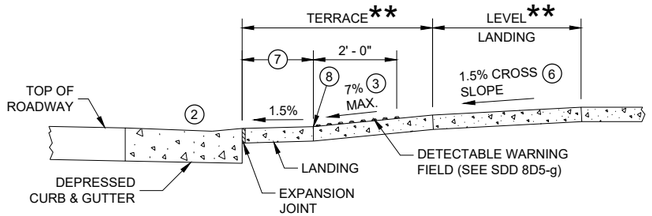
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET X 5 FEET.

(7) WHEN GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

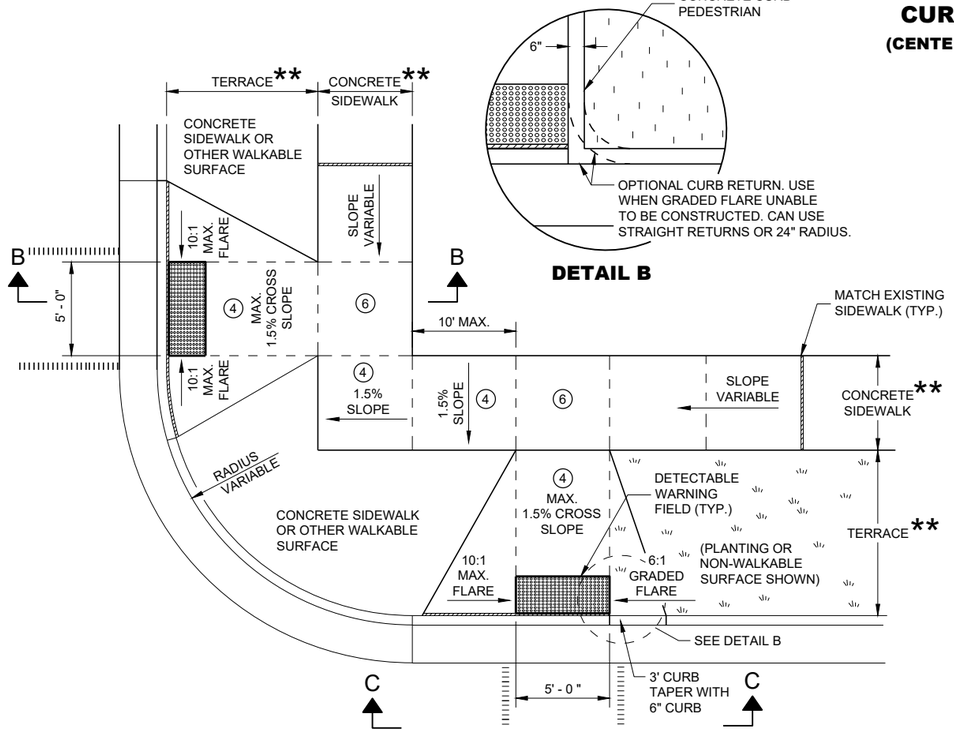
(9) WHEN DISTANCE IS LESS THAN 6' - 0", IT MAY BE DIFFICULT TO ACHIEVE A 7% SLOPE OR FLATTER ALONG THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 7% SLOPE OR FLATTER ON RAMP. CONSTRUCT 2-INCH MINIMUM CURB HEIGHT BETWEEN 10:1 FLARES.



SECTION A - A FOR TYPE 2

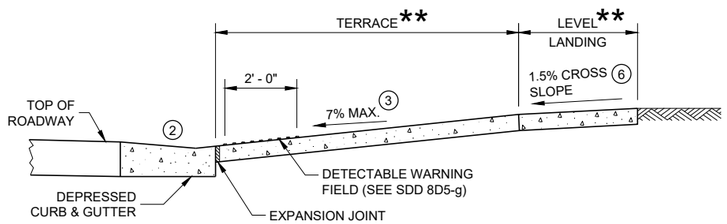
* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

** WIDTH SHOWN ELSEWHERE IN THE PLANS



DETAIL B

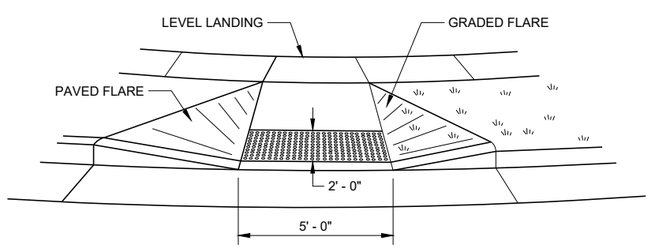
PLAN VIEW
CURB RAMP TYPE 3
(OUTSIDE OF CROSSWALK AREA)



SECTION B - B FOR TYPE 3

LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)



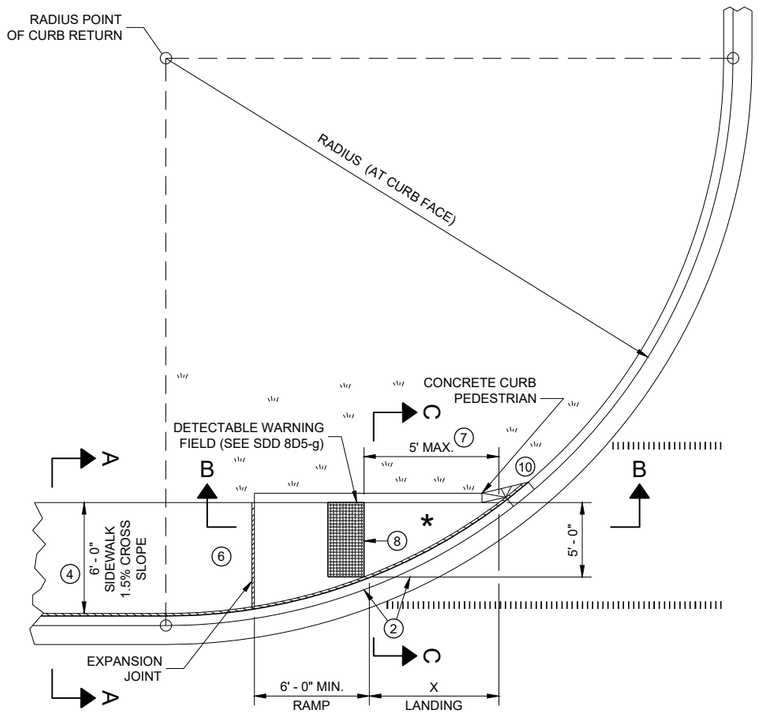
VIEW C - C FOR TYPE 3

CURB RAMPS TYPE 2 AND 3

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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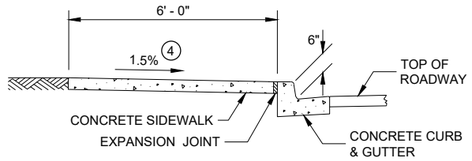


PLAN VIEW

CURB RAMP TYPE 4A

RADIUS (AT CURB FACE)	X
10 FEET	4' - 7"
15 FEET	6' - 5½"

INTERMEDIATE RADII CAN BE INTERPOLATED



SECTION A - A FOR TYPE 4A

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

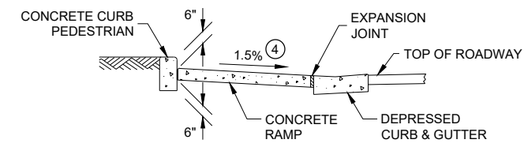
(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

LEGEND

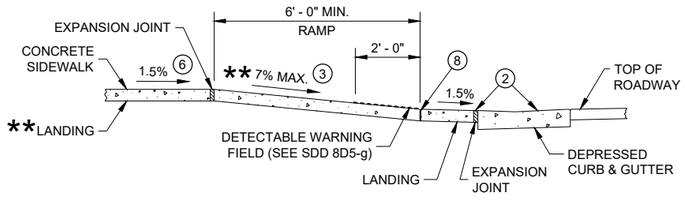
½" EXPANSION JOINT SIDEWALK

CONTRACTION JOINT SIDEWALK

PAVEMENT MARKING CROSSWALK (WHITE)



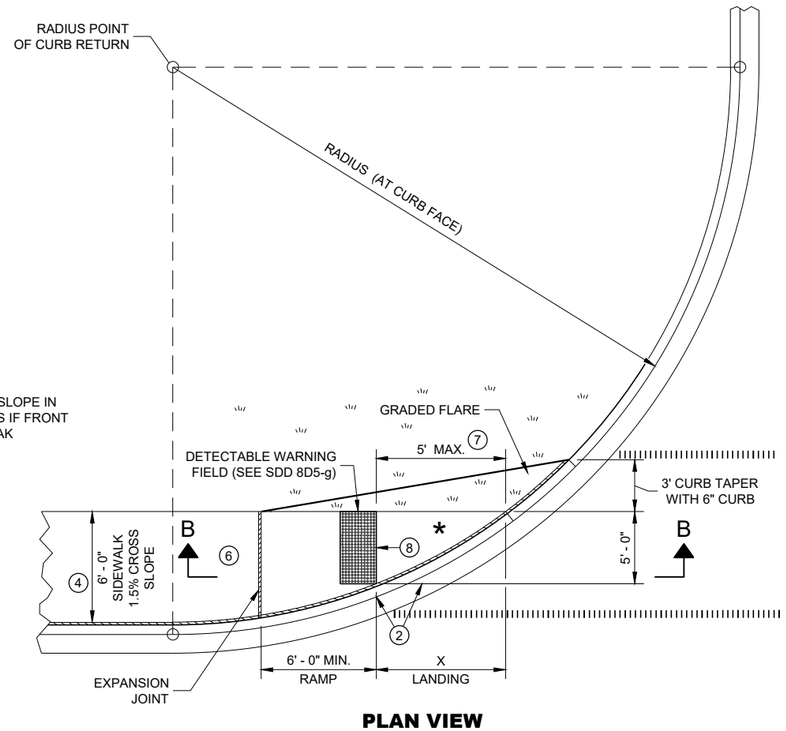
SECTION C - C FOR TYPE 4A



** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

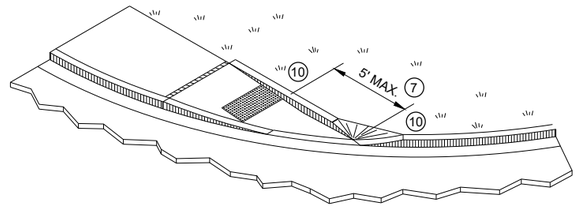
SECTION B - B FOR TYPE 4A AND TYPE 4A1

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IF FRONT OF GRADE BREAK

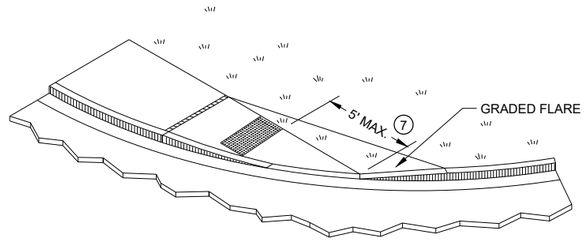


PLAN VIEW

CURB RAMP TYPE 4A1



ISOMETRIC VIEW FOR TYPE 4A



ISOMETRIC VIEW FOR TYPE 4A1

CURB RAMPS
TYPE 4A AND 4A1

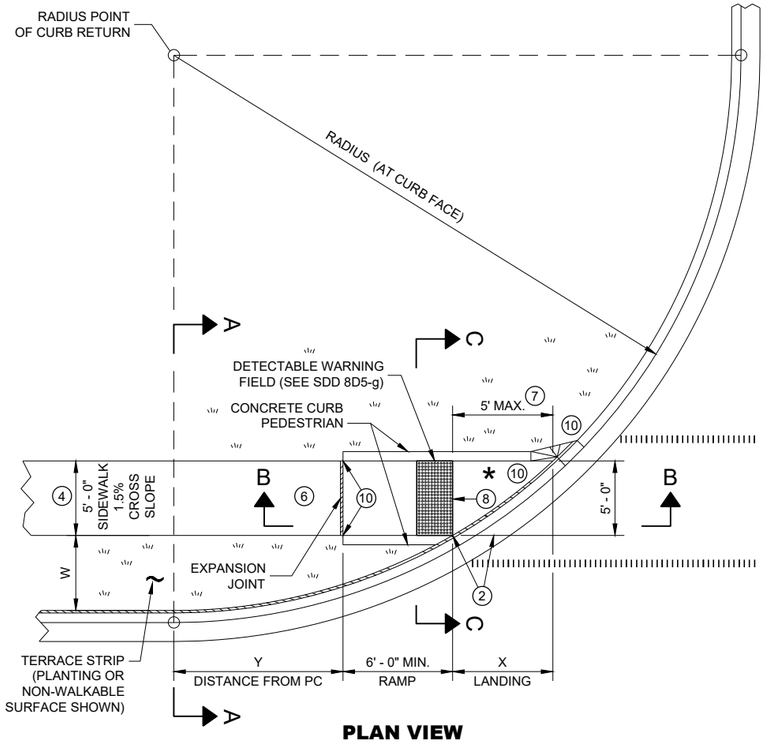
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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SDD 08D05 - 20c

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SDD 08D05 - 20c



PLAN VIEW

CURB RAMP TYPE 4B

RADIUS (AT CURB FACE)	W = 3' - 0"		W = 4' - 0"		W = 5' - 0"		W = 6' - 0"		W = 7' - 0"		W = 8' - 0"		W = 9' - 0"		W = 10' - 0"	
	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y
10 FEET	2' - 10 ¼"	0' - 5"	2' - 1"	1' - 4 ½"	1' - 5"	2' - 1"	0' - 10"	2' - 7 ½"	0' - 3 ¼"	3' - 0 ¼"						
15 FEET	4' - 6 ¾"	2' - 1 ¾"	3' - 9"	3' - 5 ¾"	3' - 1 ¼"	4' - 6"	2' - 6 ¾"	5' - 4 ½"	2' - 1"	6' - 1"	1' - 8"	6' - 8 ½"	1' - 3 ¼"	7' - 2 ½"	0' - 10 ¾"	7' - 7 ¼"
20 FEET	5' - 9 ¾"	3' - 6 ½"	4' - 11 ½"	5' - 1 ¾"	4' - 3 ¼"	6' - 5 ½"	3' - 8 ¾"	7' - 7"	3' - 3"	8' - 6 ½"	2' - 10"	9' - 4 ½"	2' - 5 ½"	10' - 1 ¼"	2' - 1 ¼"	10' - 9"
30 FEET			6' - 9 ¼"	7' - 11 ¼"	6' - 0 ¼"	9' - 8"	5' - 5"	11' - 1 ¾"	4' - 10 ¾"	12' - 5 ¾"	4' - 5 ½"	13' - 7 ¾"	4' - 0 ¾"	14' - 8 ½"	3' - 8 ½"	15' - 8 ¼"
40 FEET									6' - 1 ¾"	15' - 8 ½"	5' - 8"	17' - 2"	5' - 3"	18' - 5 ¾"	4' - 10 ¾"	19' - 8 ¼"
50 FEET															5' - 10 ¼"	23' - 2"

INTERMEDIATE RADII CAN BE INTERPOLATED
DIMENSION "Y" IS CALCULATED BASED ON 6'-0" RAMP LENGTH
DIMENSION "X" IS CALCULATED BASED ON 5'-0" SIDEWALK WIDTH

SECTION C - C FOR TYPE 4B

LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

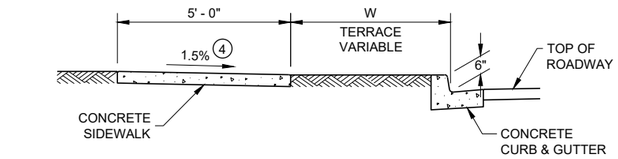
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

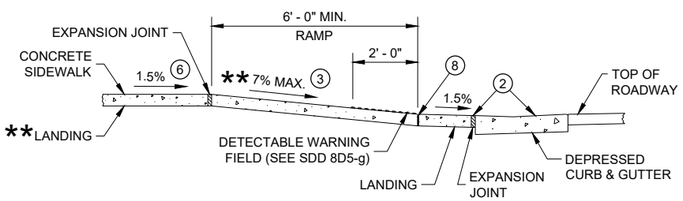
(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

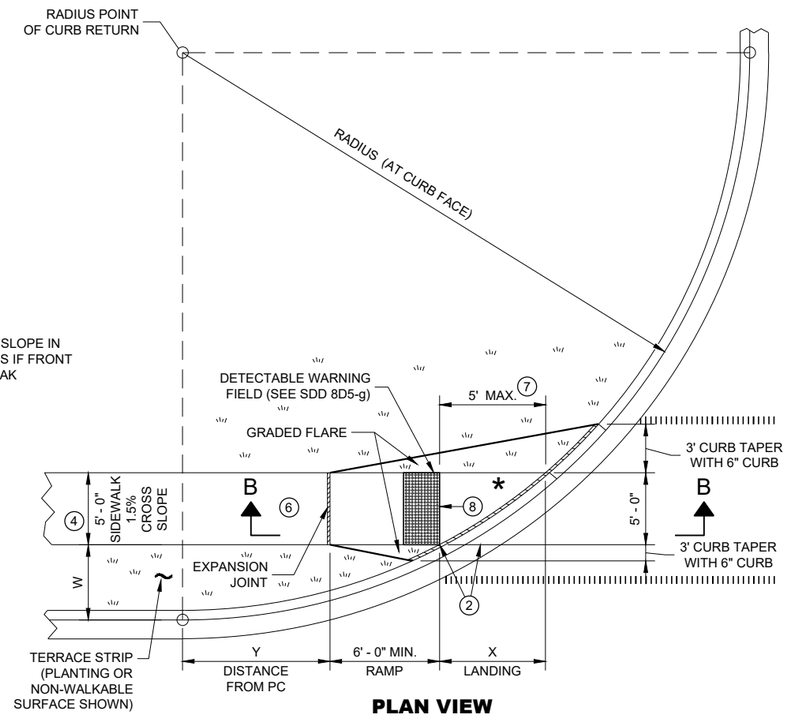


SECTION A - A FOR TYPE 4B



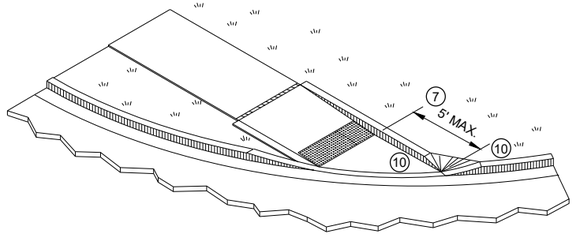
** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

SECTION B - B FOR TYPE 4B AND TYPE 4B1

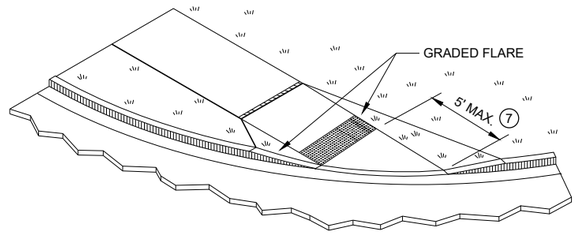


PLAN VIEW

CURB RAMP TYPE 4B1



ISOMETRIC VIEW FOR TYPE 4B



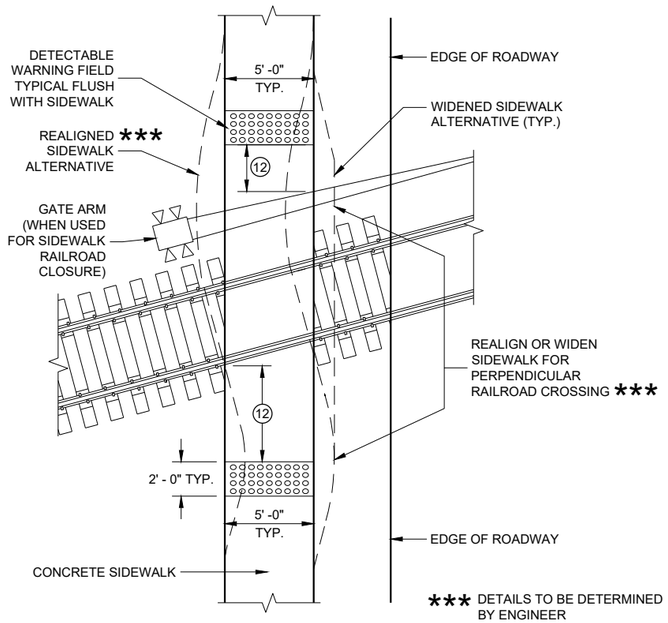
ISOMETRIC VIEW FOR TYPE 4B1

CURB RAMPS TYPE 4B AND 4B1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

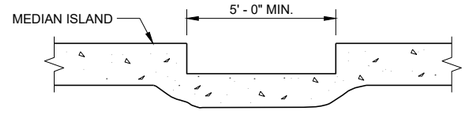
6

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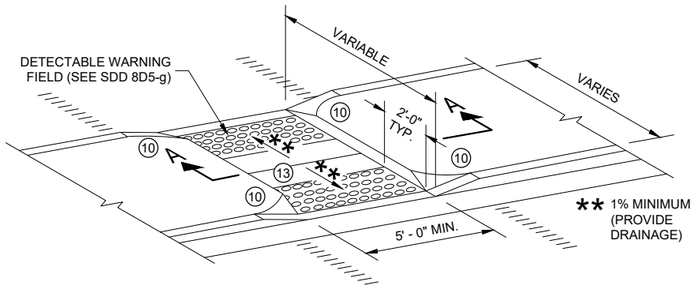


CURB RAMP TYPE 8

DETECTABLE WARNINGS AT RAILROAD CROSSING



SECTION A - A FOR TYPE 5



CURB RAMP TYPE 5

MEDIAN ISLAND NON-ELEVATED PEDESTRIAN CROSSING

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ½ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

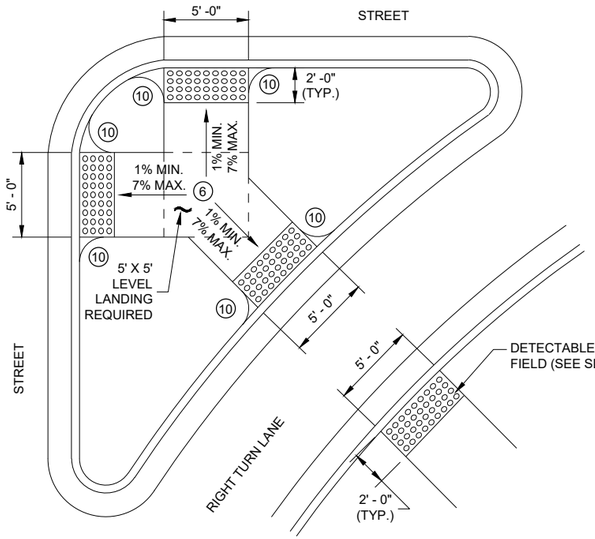
(11) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

(12) THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING SHALL BE 1.5 FEET ±0.1' FROM THE FACE OF THE GATE ARM IF THE GATE ARM EXTENDS ACROSS THE SIDEWALK. WHERE THERE IS NO PEDESTRIAN GATE, THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO THE RAILROAD CROSSING SHALL BE 15 FEET FROM THE NEAREST RAIL.

(13) DO NOT INSTALL DETECTABLE WARNING FIELDS AT THE EDGES OF STEET-LEVEL PEDESTRIAN REFUGE ISLANDS IF A MINIMUM 2 FOOT CONCRETE SURFACE WITHOUT DETECTABLE WARNINGS (MEASURED IN THE DIRECTION OF PEDESTRIAN TRAVEL) CANNOT BE ACHIEVED.

LEGEND

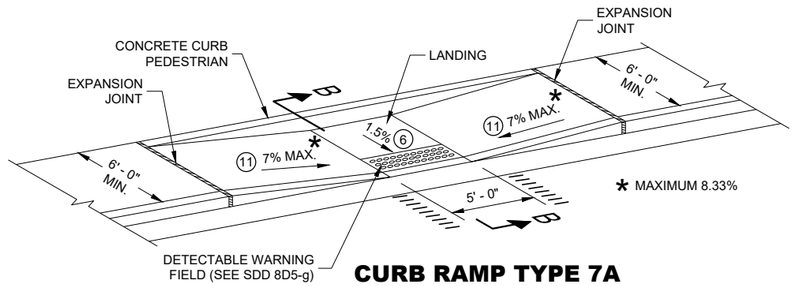
- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)



CURB RAMP TYPE 6

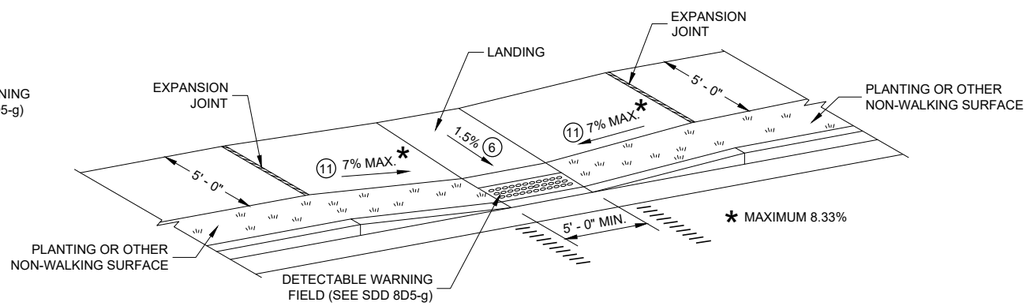
DETECTABLE WARNING AT ISLANDS

REFER TO GENERAL NOTES (2) AND (3) FOR ALL ISLAND CURB RAMPS



CURB RAMP TYPE 7A

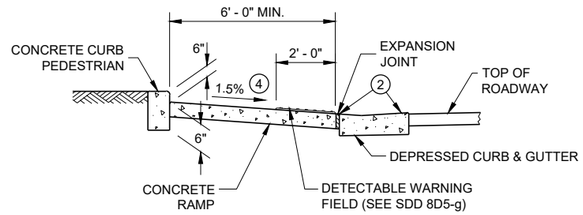
MID BLOCK CROSSING



CURB RAMP TYPE 7B

MID BLOCK CROSSING

NOTE: THESE PARALLEL AND PARALLEL/PERPENDICULAR CURB RAMPS MAY BE USED AT INTERSECTIONS AND MID BLOCK LOCATIONS.



SECTION B - B FOR TYPE 7A

CURB RAMPS TYPE 5, 6, 7A, 7B & 8

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

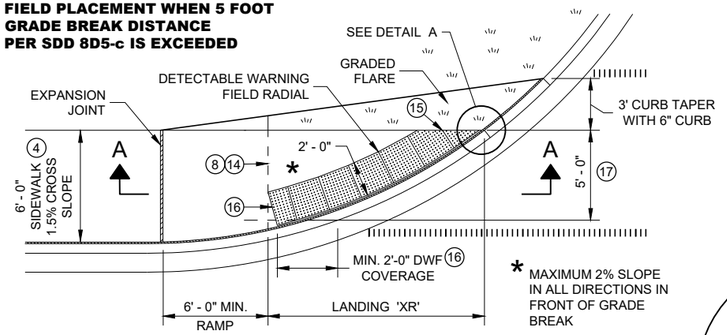
6

SDD 08D05 - 20e

6

SDD 08D05 - 20e

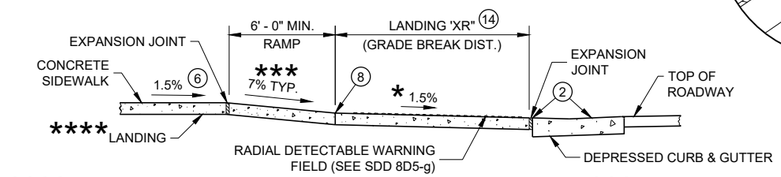
RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-c IS EXCEEDED



PLAN VIEW

CURB RAMP TYPE 4A1

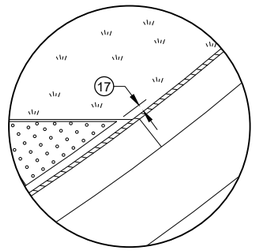
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

*** MAXIMUM 8.33%

SECTION A - A FOR TYPE 4A1



DETAIL A

LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

APPLY RADIAL DETECTABLE WARNING PLACEMENT SIMILARLY FOR TYPE 4A AND 4A1 CURB RAMPS AND SIMILARLY FOR TYPE 4B AND 4B1 CURB RAMPS. TYPE 4A AND 4B CURB RAMPS ARE NOT SHOWN.

REFER TO SDD 8D5-g FOR ADDITIONAL RADIAL PLATE REQUIREMENTS.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FILED ARE PROHIBITED.

DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AD ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET BY 5 FEET.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

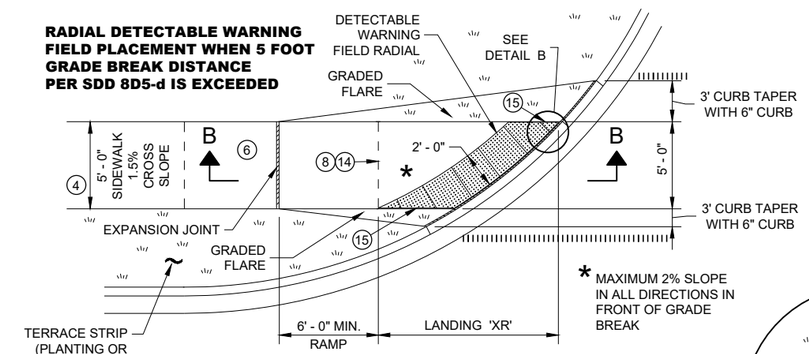
(14) CONSULT ENGINEER IF GRADE BREAK LOCATION (END OF LANDING DIMENSION "XR") REQUIRES FIELD ADJUSTMENT WHEN ESTABLISHING FINAL RADIAL DETECTABLE WARNING FIELD LOCATION.

(15) FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN ⅛" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.

(16) USE 1' X 2" RECTANGULAR END PLATE AT END OF TYPE 4A1 RAMP AND PROVIDE MINIMUM 2' - 0" DETECTABLE WARNING FIELD COVERAGE (IN DIRECTION OF PEDESTRIAN TRAVEL) ALONG THE ENTIRE CURB RAMP WIDTH.

(17) A MAXIMUM 3 INCH CONCRETE BORDER WITH IS ALLOWABLE IN FROM OF RADIAL DETECTABLE WARNING FIELD FOR CONSTRUCTABILITY PURPOSES. CONCRETE BORDER WIDTH MAY VARY UP TO 1 INCH.

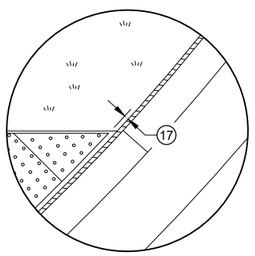
RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-d IS EXCEEDED



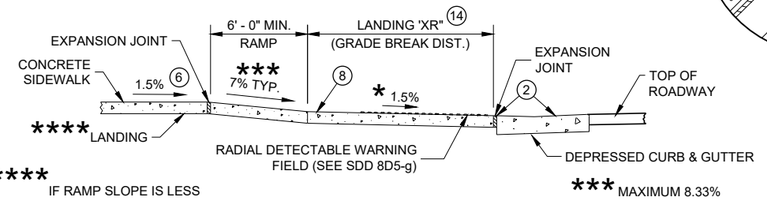
PLAN VIEW

CURB RAMP TYPE 4B1

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



DETAIL B

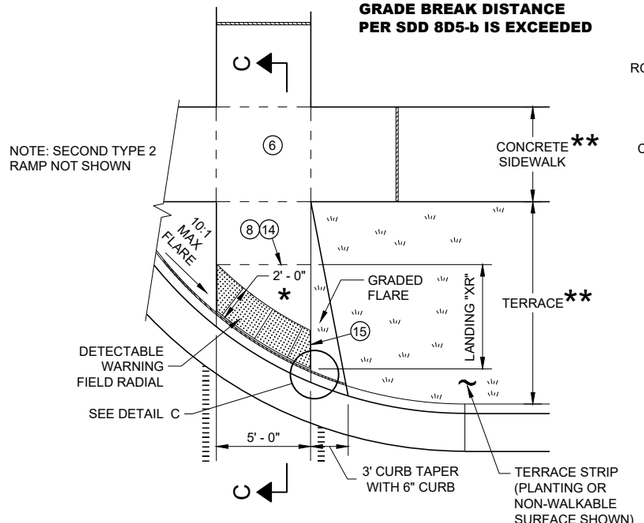


**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

*** MAXIMUM 8.33%

SECTION B - B FOR TYPE 4B1

RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-b IS EXCEEDED

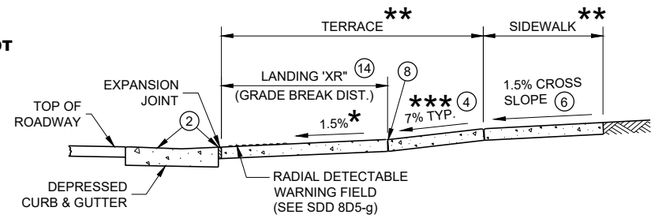


PLAN VIEW

CURB RAMP TYPE 2

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)

(ON LINE WITH SIDEWALK)

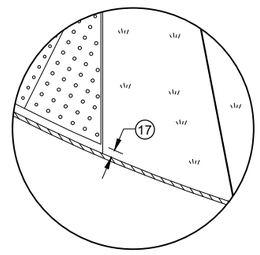


SECTION C - C FOR TYPE 2

* MAXIMUM 2% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

** WIDTH SHOWN ELSEWHERE IN THE PLANS

*** MAXIMUM 8.33%



DETAIL C

CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS

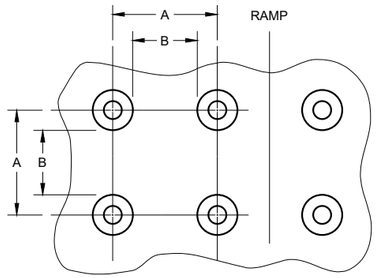
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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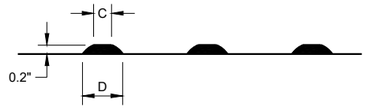
SDD 08D05 - 20f

	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.

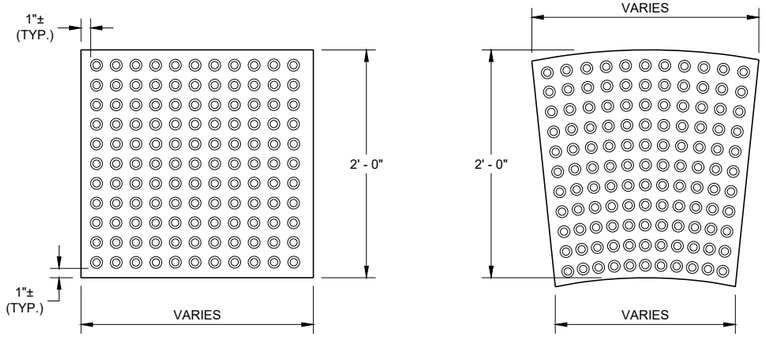


PLAN VIEW



ELEVATION VIEW

TRUNCATED DOMES
DETECTABLE WARNING PATTERN DETAIL



RECTANGULAR PLATES

RADIAL PLATES

PLAN VIEW
DETECTABLE WARNING FIELDS (TYPICAL)

GENERAL NOTES

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AT A CURB RAMP SHALL BE FROM THE SAME MANUFACTURER.

PLACE ALL DETECTABLE WARNING FIELD SYSTEMS IN ACCORDANCE TO THE MANUFACTURER'S RECOMMENDATION.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FILED ARE PROHIBITED.

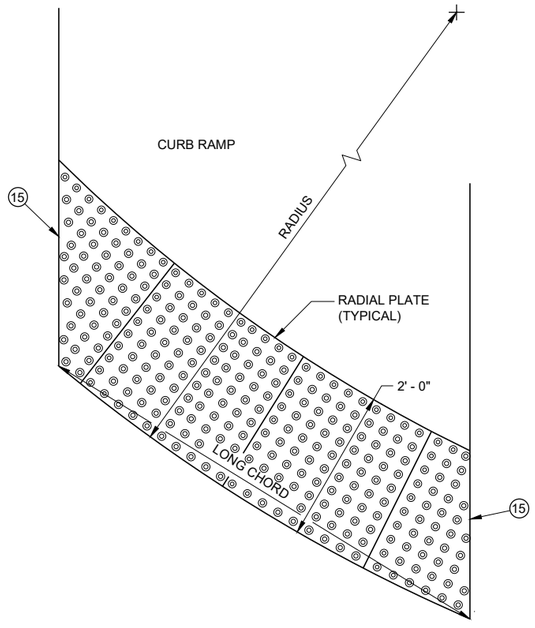
DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

FOR RADIAL DETECTABLE WARNING FIELD APPLICATIONS WHERE STANDARD RADIAL PLATES ARE NOT AVAILABLE AT AN INTERSECTION CURB RADIUS, A COMBINATION OF SQUARE OR RECTANGULAR PLATES AND RADIAL PLATES MAY BE USED TO FORM RADIAL CONFIGURATION. RADIAL WEDGE PLATES IN COMBINATION WITH SQUARE PLATES ARE ALSO ACCEPTABLE. FOLLOW MANUFACTURER'S RECOMMENDATIONS.

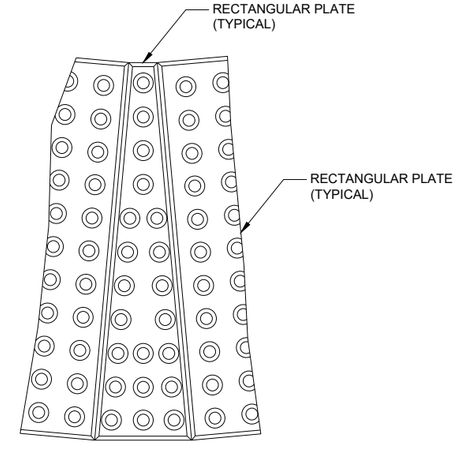
REFER TO CONTRACT AND STANDARD SPECIFICATIONS FOR FIELD CUTTING REQUIREMENTS.

DO NOT EMBED IN CONCRETE ANY FIELD-CUT PLATES WITH CUT EDGES SHORTER THAN 6 INCHES. CONSULT WITH MANUFACTURER FOR RE-DRILLING AND ANCHORING REQUIREMENTS OF FIELD-CUT PLATES.

(15) FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN ⅛" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.



PLAN VIEW
RADIAL DETECTABLE WARNING FIELD ATTRIBUTES



PLAN VIEW
RADIAL WEDGE PLATE CONNECTION DETAIL

CURB RAMPS
RECTANGULAR AND RADIAL
DETECTABLE WARNING PLATES

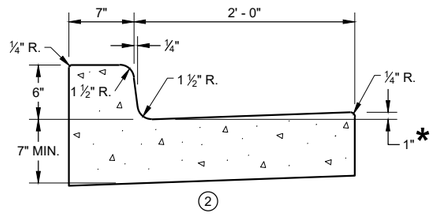
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERVISOR

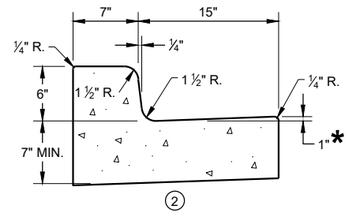
FHWA

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SDD 08D05 - 20g

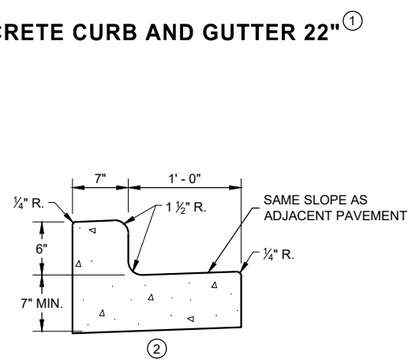


CONCRETE CURB AND GUTTER 31" ①

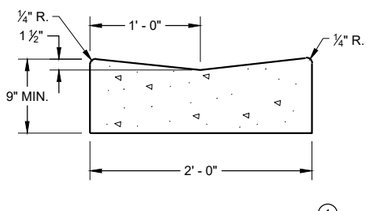
*TO BE MEASURED TO A MAXIMUM OF 3" WHERE DRAINAGE PROBLEMS EXIST.



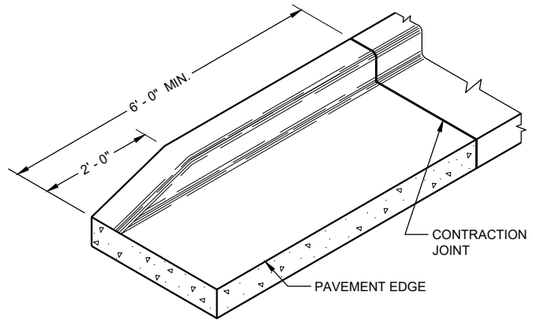
CONCRETE CURB AND GUTTER 22" ①



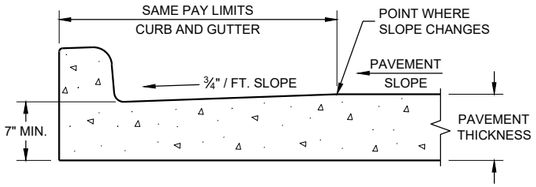
CONCRETE CURB AND GUTTER 19" ①



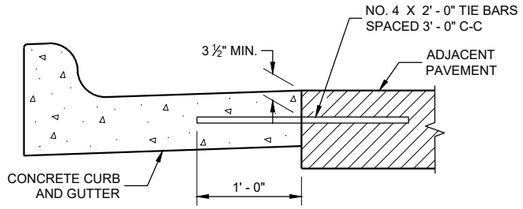
CONCRETE GUTTER 24" ①



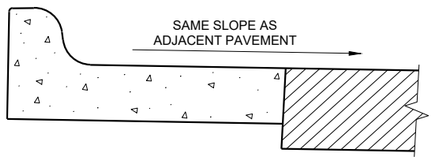
END SECTIONCURB AND GUTTER



PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB AND GUTTER



TYPICAL TIE BAR LOCATION ①



HIGH SIDE SECTION ③

(TYPICAL FOR ALL CURB & GUTTER TYPES)

GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

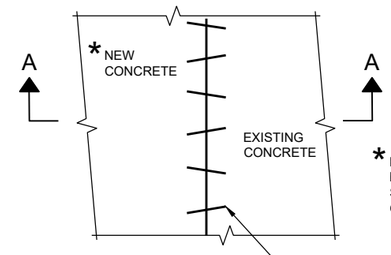
INTEGRAL CURB AND GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB AND GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE. A LONGITUDINAL CONSTRUCTION JOINT IS NOT REQUIRED WITH INTEGRAL CURB AND GUTTER.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE COURSE AND UNCLASSIFIED EXCAVATION LIMITS ARE 2' - 0" BEHIND THE BACK OF CURBS.

① WHEN PLACED ADJACENT TO NEW CONCRETE, TIE BARS ARE REQUITED FOR CURB AND GUTTER 31", 22", 19" AND CONCRETE GUTTER 24".

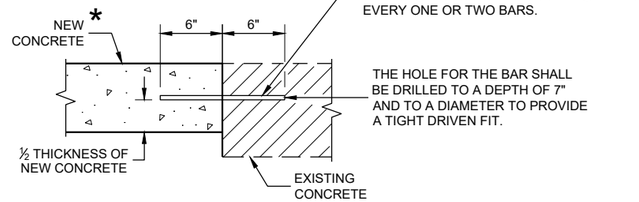
② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE COURSE PROVIDED A 7" MINIMUM GUTTER THICKNESS IS MAINTAINED.

③ WHEN HIGH SIDE CURB SECTION IS REQUIRED, THE LOCATION(S) WILL BE NOTED ON THE PLANS



PLAN VIEW

*EXISTING AND NEW CONCRETE MAY BE CURB AND GUTTER, SURFACE DRAINS, PAVEMENT OR OTHER CONCRETE STRUCTURE.



SECTION A - A

PAVEMENT TIES

CONCRETE GUTTER, CURB AND GUTTER AND PAVEMENT TIES

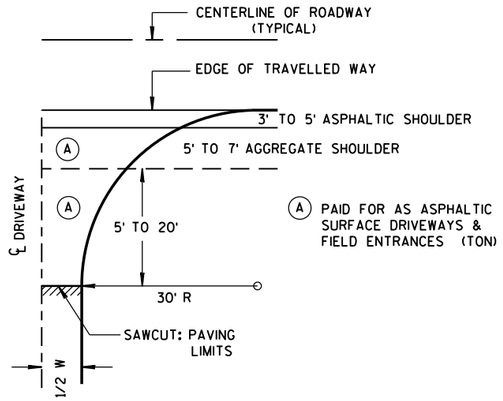
(For Optional use in Milwaukee Co. Only)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE

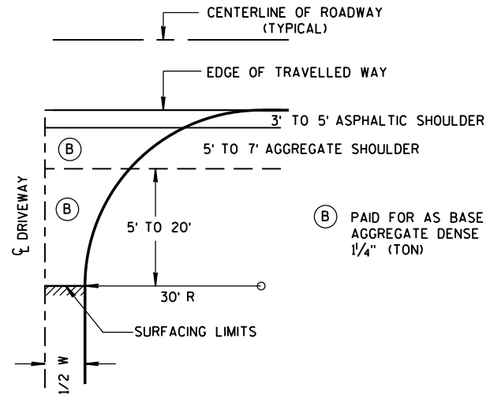
/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA



PLAN VIEW
HALF SECTION

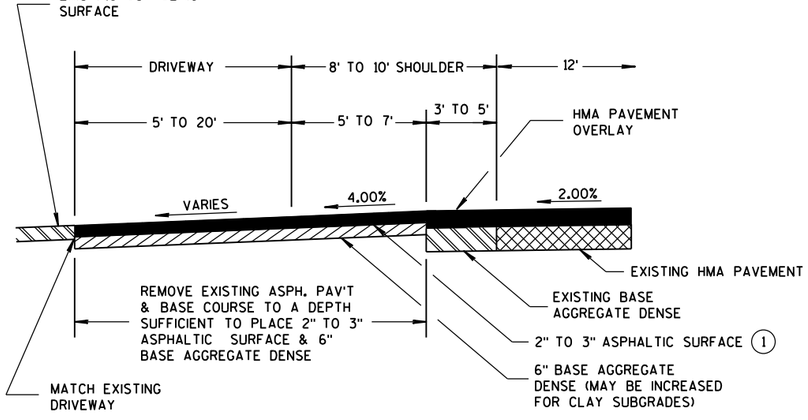
W MIN. = 16'
W MAX. = 24'



PLAN VIEW
HALF SECTION

GENERAL NOTES

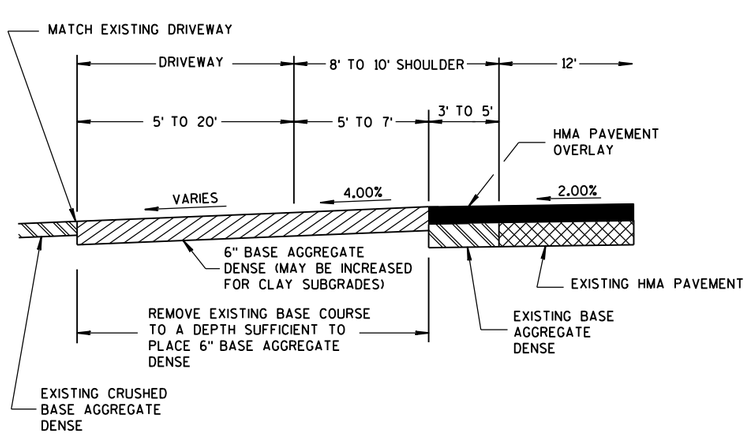
(1) DESIGN WILL DETERMINE FINAL DRIVEWAY ASPHALTIC THICKNESS BASED ON TYPE OF USAGE AND LOADINGS.



PROFILE VIEW

RURAL ENTRANCE WITH ASPHALTIC SURFACE

RESURFACING PROJECTS



PROFILE VIEW

RURAL ENTRANCE WITH AGGREGATE SURFACE

6" BASE AGGREGATE DENSE
RESURFACING PROJECTS

DRIVEWAYS WITHOUT CURB & GUTTER RESURFACING PROJECTS RURAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

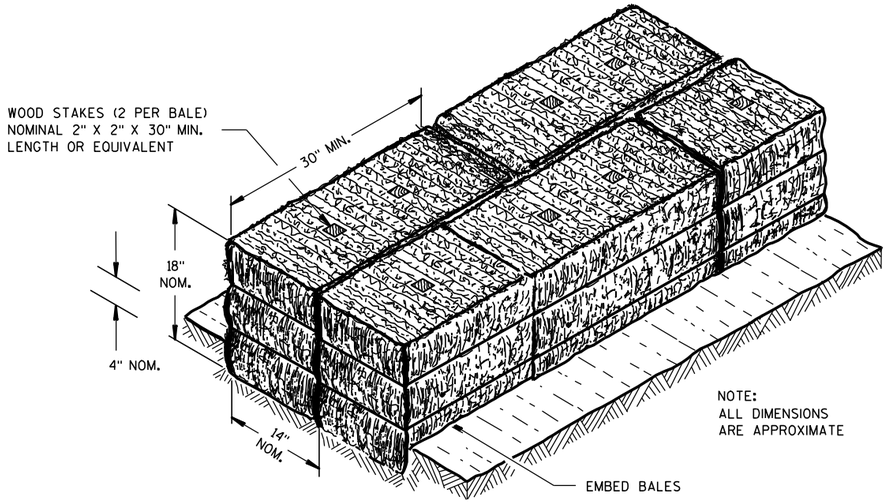
APPROVED
December, 2016 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR
FHWA

6

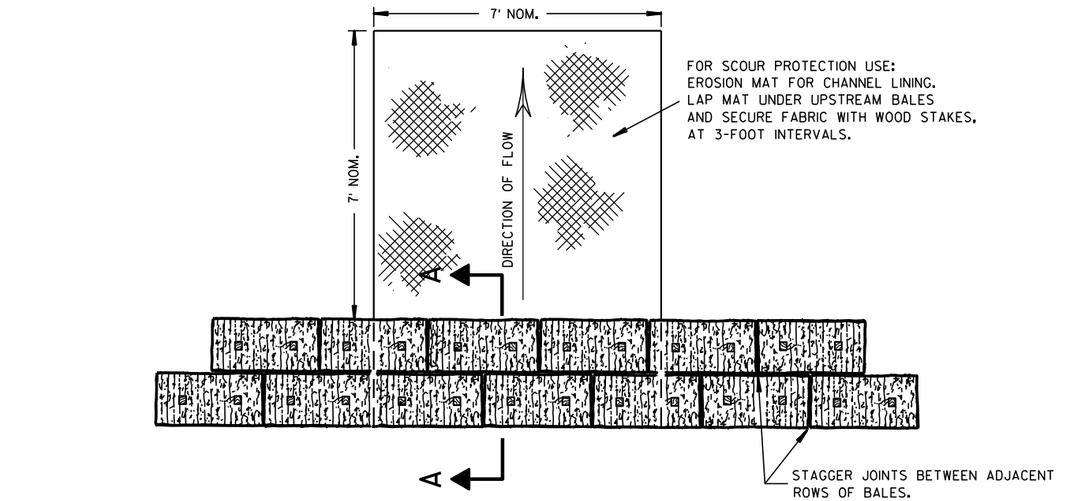
S.D.D. 8 D 22-1

6

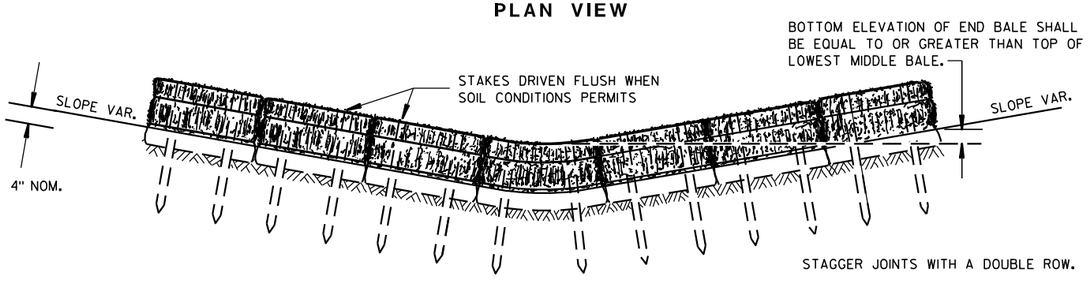
S.D.D. 8 D 22-1



SECTION A-A



PLAN VIEW



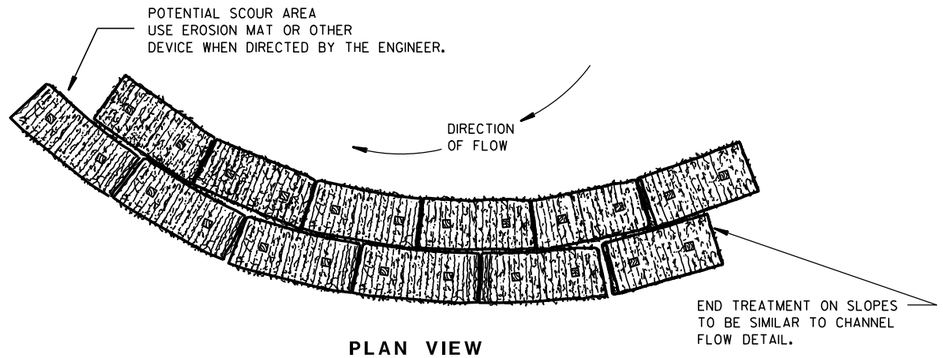
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES (1)

GENERAL NOTES

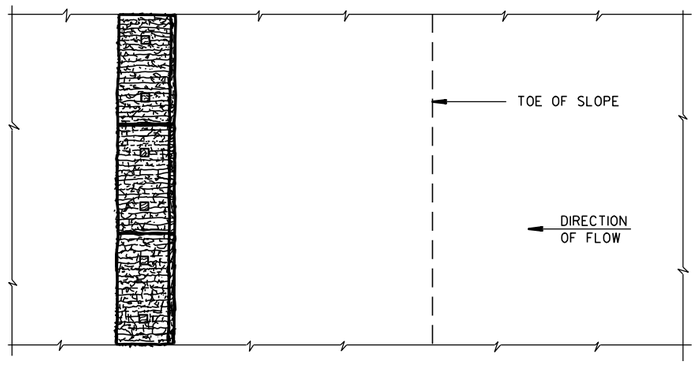
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(1) TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

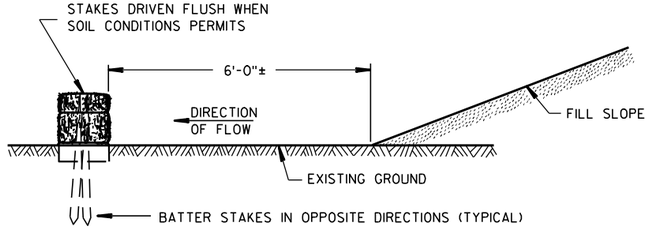


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

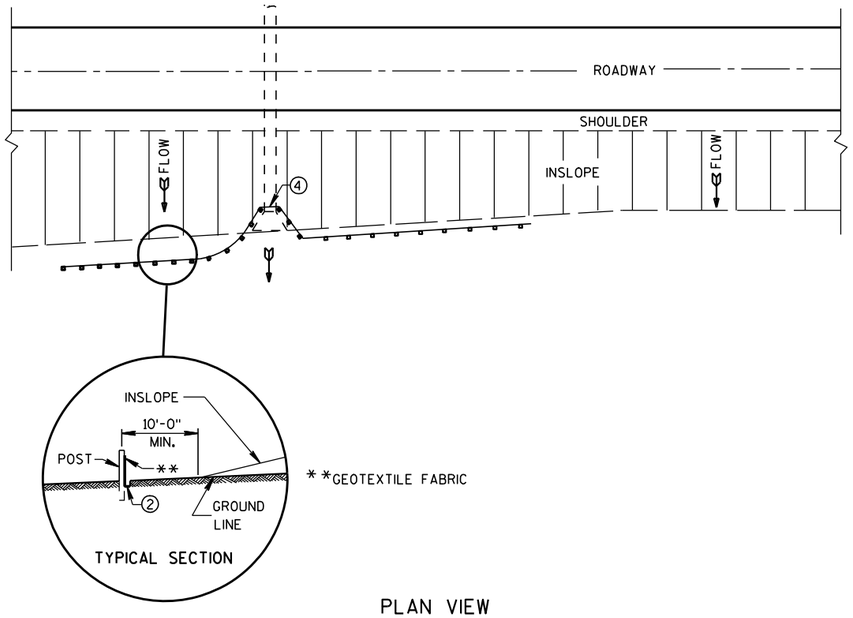
6/04/02 — DATE

/S/ Beth Cannestra — CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

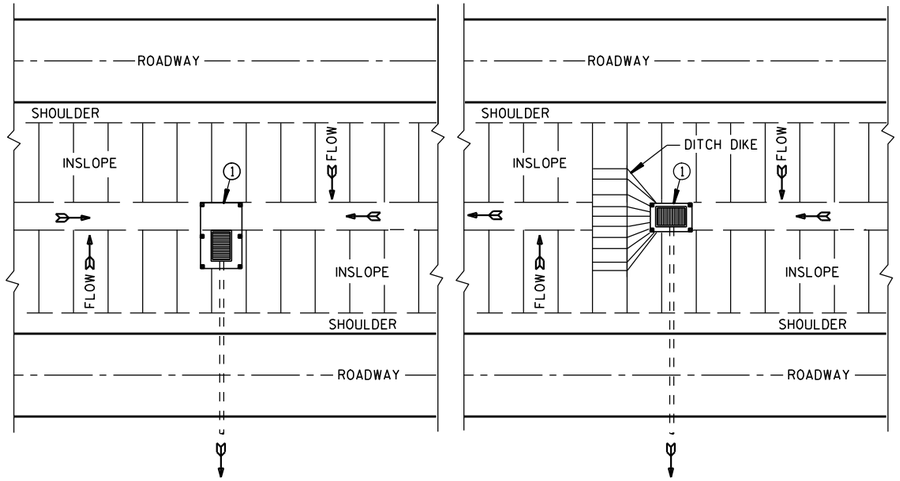
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S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

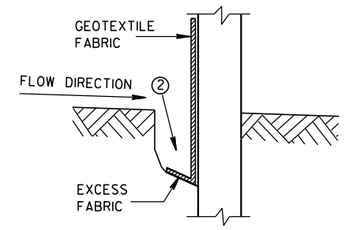
① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.

② FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.

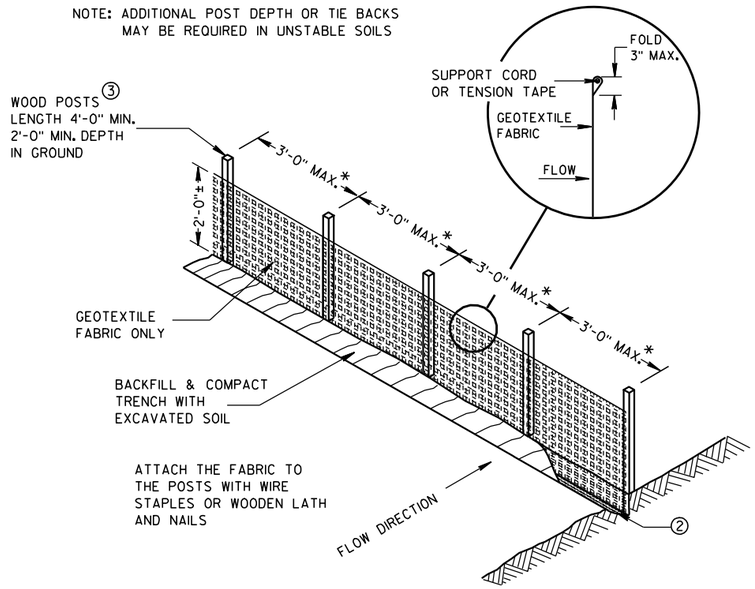
③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.

④ SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.

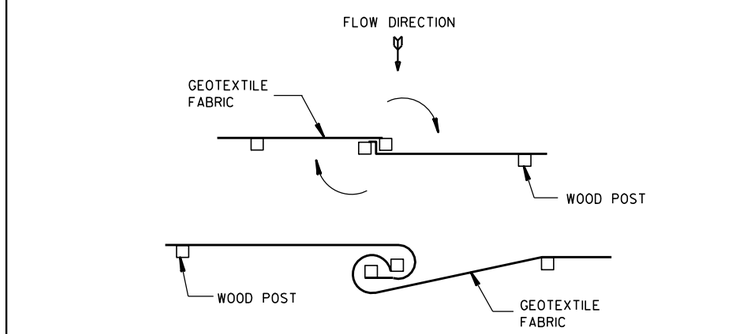
⑤ CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



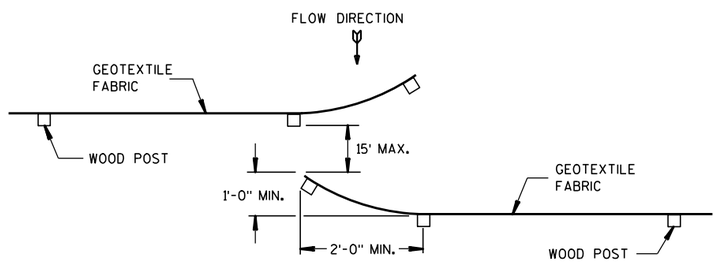
TRENCH DETAIL



SILT FENCE

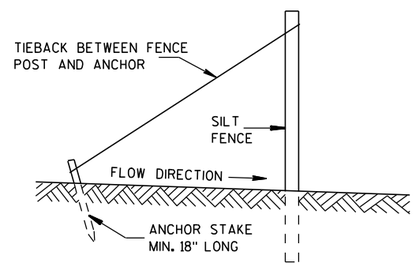


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE ⑤



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

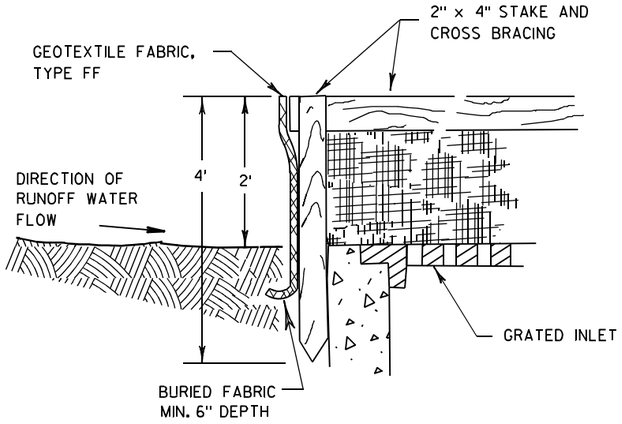
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

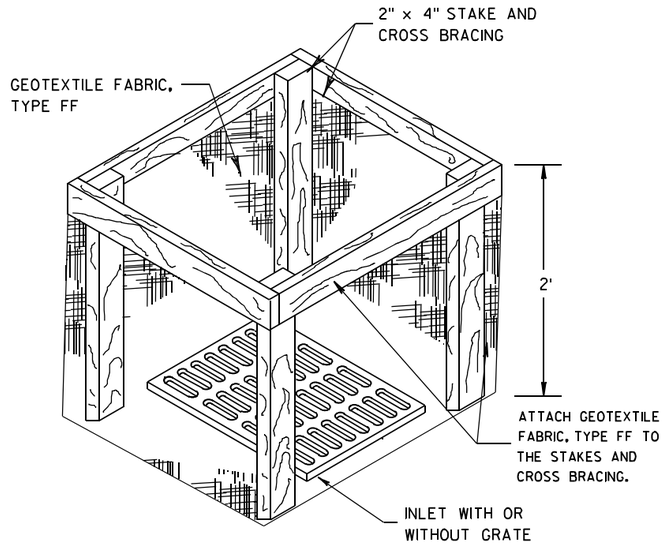
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S.D.D. 8 E 9-6

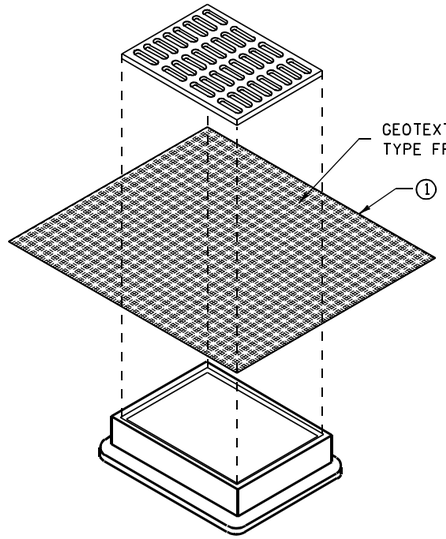
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S.D.D. 8 E 9-6



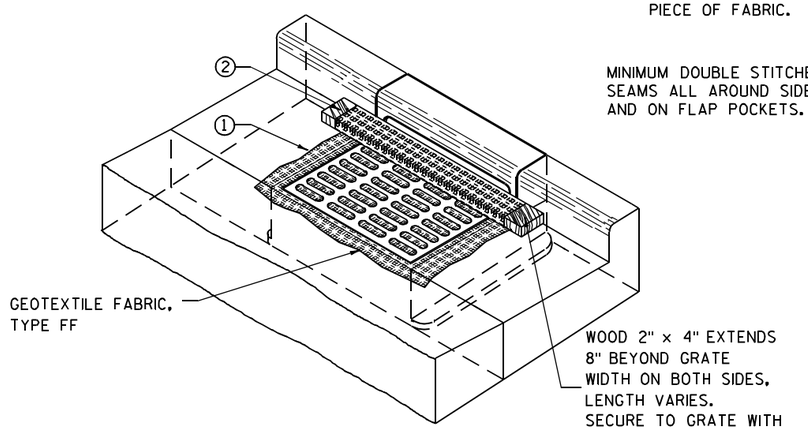


INLET PROTECTION, TYPE A

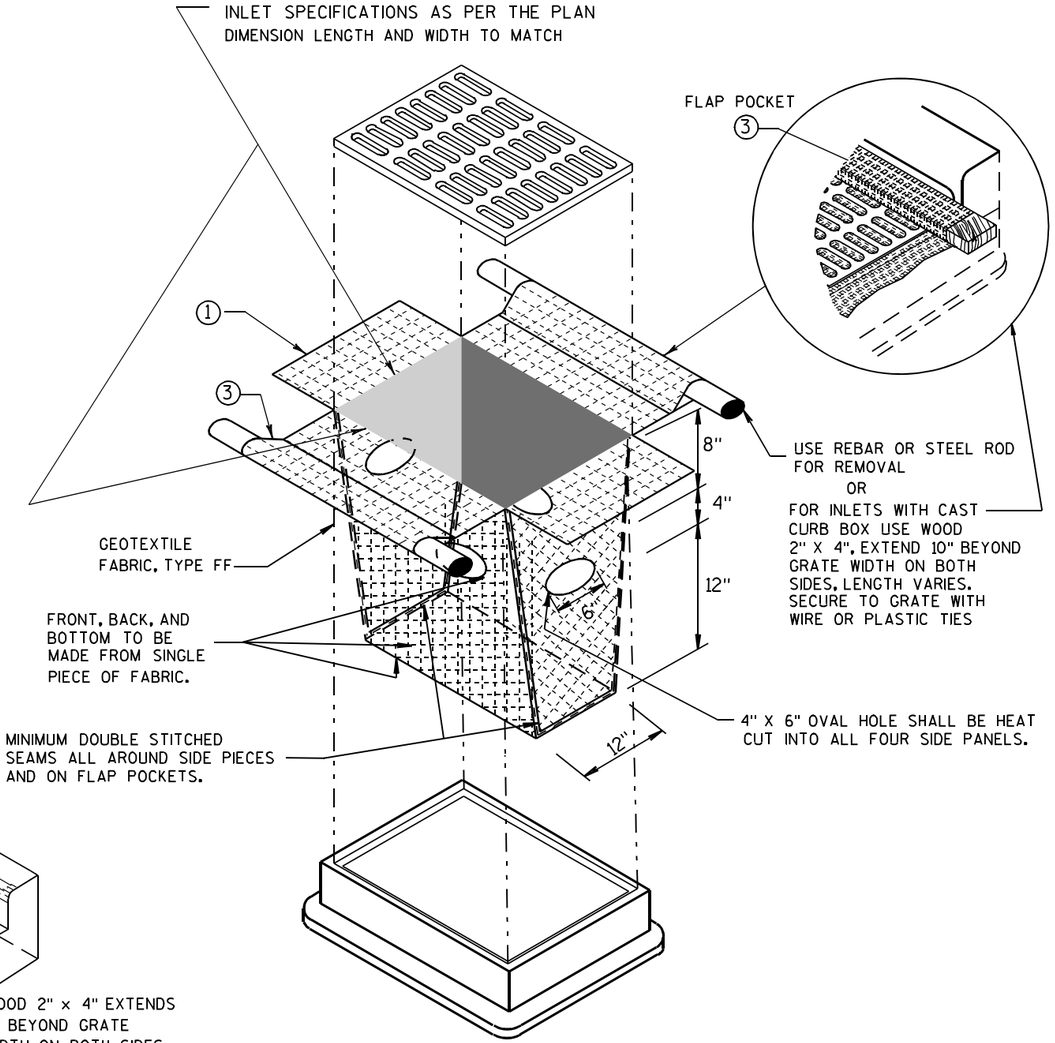


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

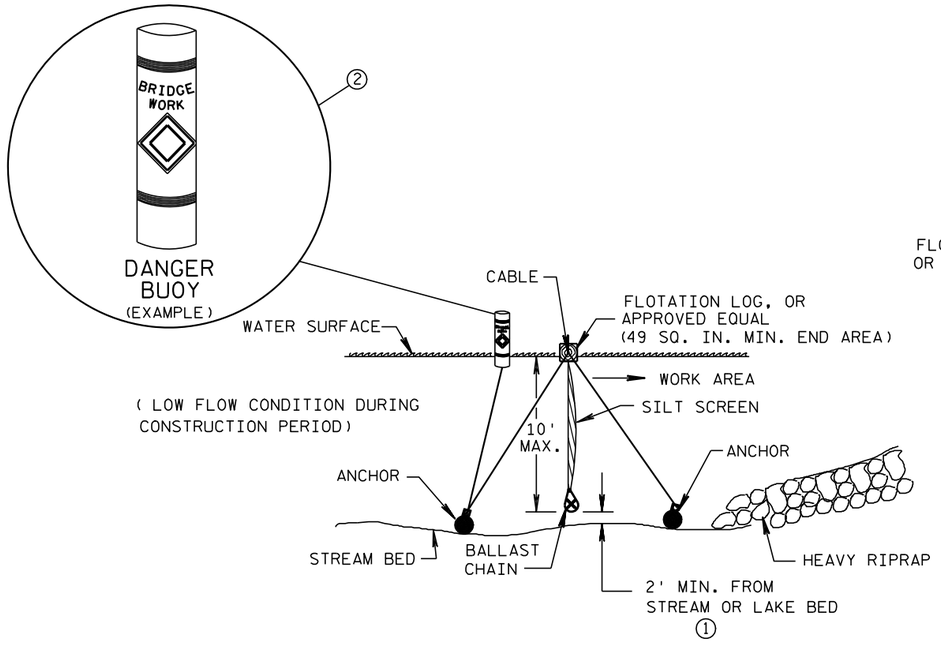
APPROVED
10/16/02
DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

GENERAL NOTES

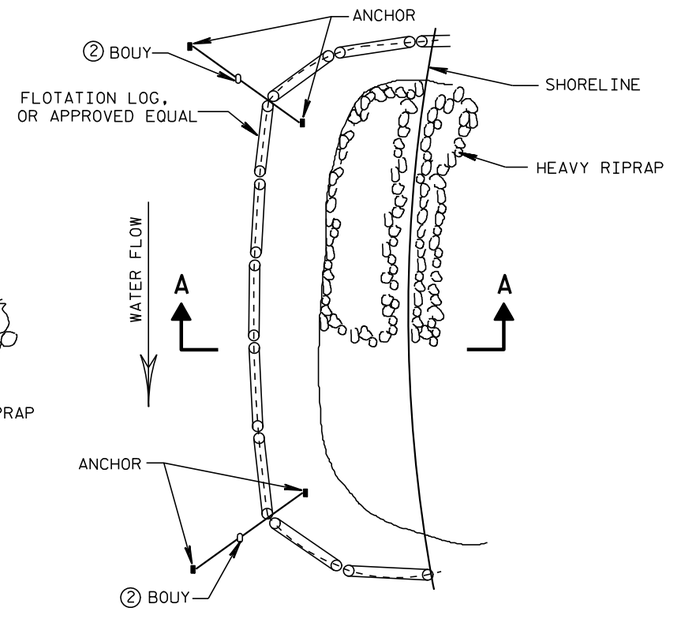
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

① 2' MINIMUM SHALL BE MAINTAINED DURING CONSTRUCTION PERIOD.

② USE AS DIRECTED BY COAST GUARD OR DNR PERMIT WHEN WORKING IN NAVIGABLE WATERWAYS.



SECTION A-A



PLAN VIEW

SILT SCREEN PLACEMENT DETAIL

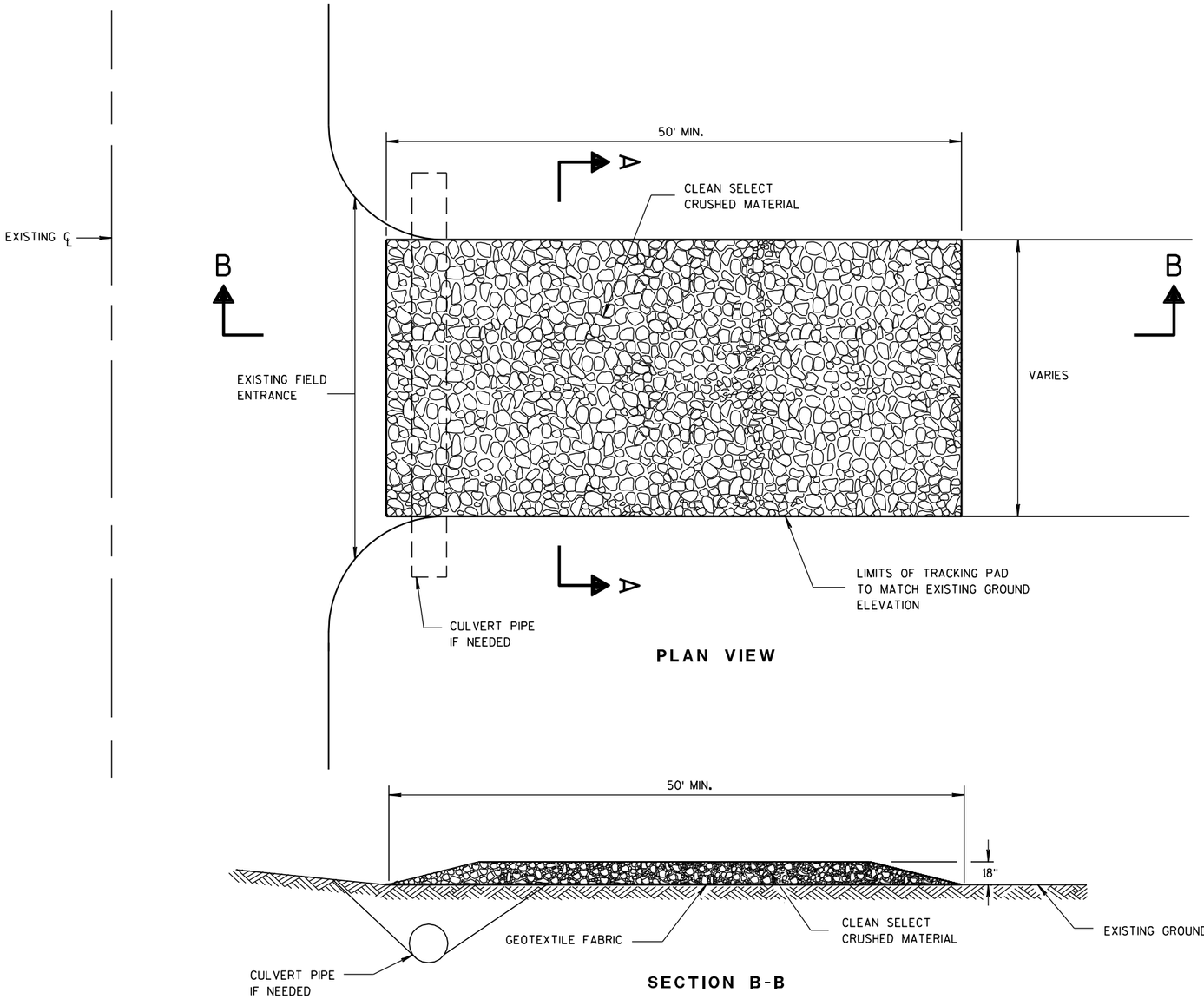
SILT SCREEN
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
APPROVED 6/04/02 DATE — /S/ Beth Cannestra, CHIEF ROADWAY DEVELOPMENT ENGINEER FHWA

6

S.D.D. 8 E 12-1

6

S.D.D. 8 E 12-1



PLAN VIEW

SECTION B-B

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

TRACKING PAD SHALL BE INSPECTED DAILY. DEFICIENT AREAS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

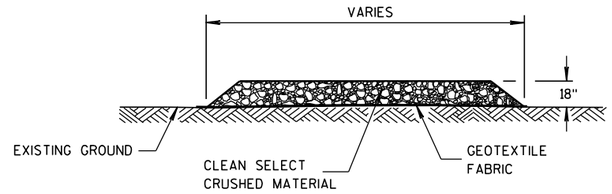
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT.

SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY, AROUND OR CONVEYED UNDER THE TRACKING PAD.

CULVERT PIPE OR OTHER BMP USED TO DIVERT WATER AWAY, AROUND OR UNDER THE TRACKING PAD SHALL BE DESIGNED TO CONVEY THE 2 YEAR - 24 HOUR EVENT.

THE COST OF ADDITIONAL BMP TO DIVERT WATER ARE INCIDENTAL TO THE TRACKING PAD BID ITEM.



SECTION A-A

TRACKING PAD

TRACKING PAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

3/24/2011
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

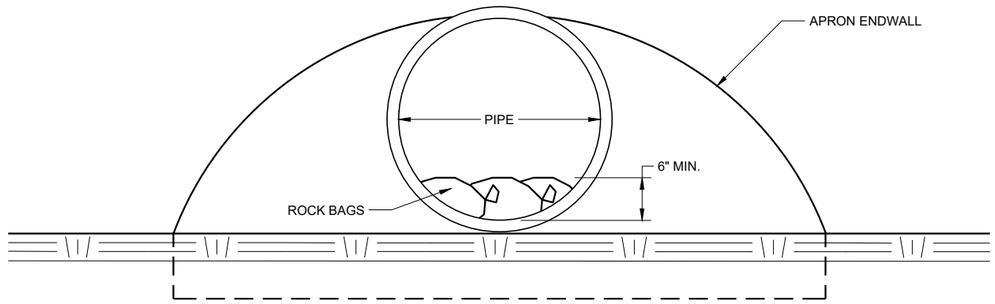
FHWA

6

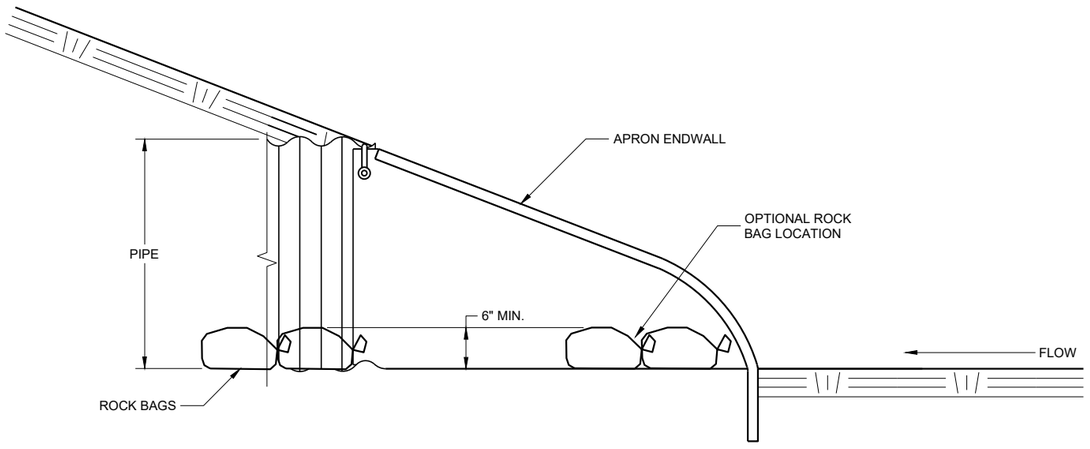
S.D.D. 8 E 14-1

6

S.D.D. 8 E 14-1



END VIEW



SIDE VIEW

CULVERT PIPE CHECK

(INSTALL ON INLET END ONLY)

CULVERT PIPE CHECK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE

/S/ Daniel Schave
EROSION CONTROL ENGINEER

FHWA

6

SDD 08E15 - 01

6

SDD 08E15 - 01

METAL APRON ENDWALLS

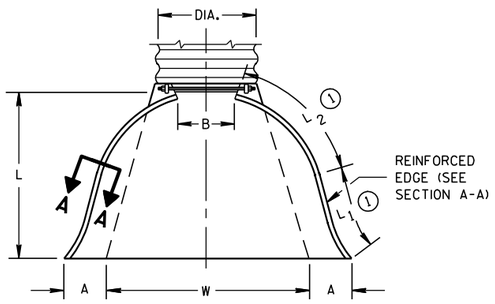
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 1	1 Pc.
21	.064	.060	9	12	6	36	18	29 5/8	42	2 1/2 to 1	1 Pc.
24	.064	.075	10	13	6	41	18	37 1/4	48	2 1/2 to 1	1 Pc.
30	.079	.075	12	16	8	51	18	52 1/4	60	2 1/2 to 1	1 Pc.
36	.079	.105	14	19	9	60	24	59 3/4	72	2 1/2 to 1	2 Pc.
42	.109	.105	16	22	11	69	24	75 5/8	84	2 1/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 1/4 to 1	3 Pc.
54	.109	.105	18	30	12	84	30	85 1/2	102	2 1/4 to 1	3 Pc.
60	.109×	.105×	18	33	12	87	—	—	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	—	—	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	—	—	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	—	—	132	1 1/2 to 1	3 Pc.
84	.109×	.105×	18	45	12	87	—	—	138	1 1/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	—	—	144	1 1/2 to 1	3 Pc.
96	.109×	.105×	18	35	12	87	—	—	150	1 1/2 to 1	3 Pc.

× EXCEPT CENTER PANEL SEE GENERAL NOTES

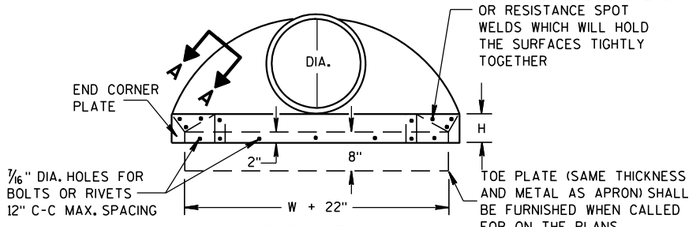
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches) T	A	B	C	D	E	G	APPROX. SLOPE
12	2	4	24	48 7/8	72 1/8	24	2	3 to 1
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	3 to 1
30	3 1/2	12	54	19 3/4	73 1/2	60	3 1/2	3 to 1
36	4	15	63	34 3/4	97 3/4	72	4	3 to 1
42	4 1/2	21	63	35	98	78	4 1/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	5 1/2	27	65	* 33 1/4 - ** 35	* 98 1/4 - ** 100	90	5 1/2	2 2/5 to 1
60	6	* 30 - ** 35	60	39	99	96	5	2 to 1
66	6 1/2	* 24 - ** 30	* 72 - ** 78	* 21 - ** 27	99	102	5 1/2	2 to 1
72	7	* 24 - ** 36	78	21	99	108	6	2 to 1
78	7 1/2	* 24 - ** 36	78	21	99	114	6 1/2	2 to 1
84	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2 to 1
90	8 1/2	41	87 1/2	24	111 1/2	132	6 1/2	1 1/2 to 1

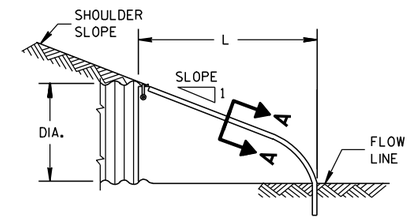
*MINIMUM
**MAXIMUM



PLAN VIEW

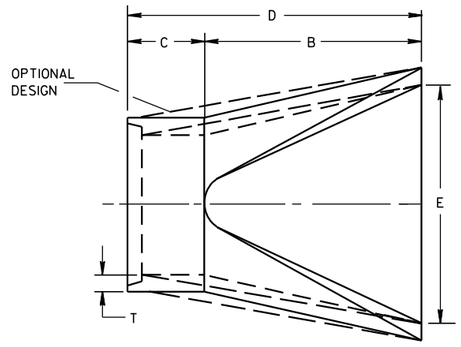


END VIEW

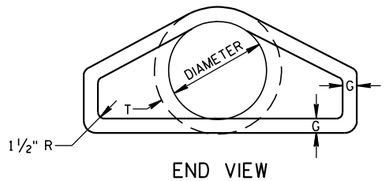


SIDE ELEVATION

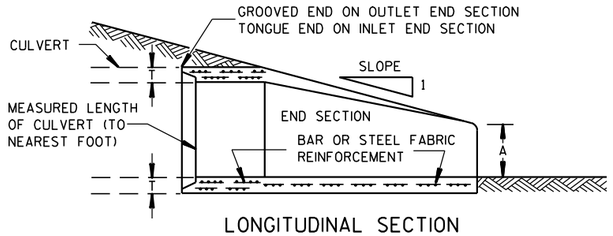
METAL ENDWALLS



PLAN

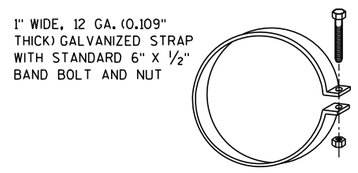


END VIEW



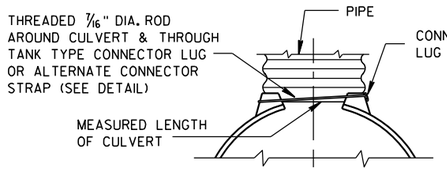
LONGITUDINAL SECTION

CONCRETE ENDWALLS

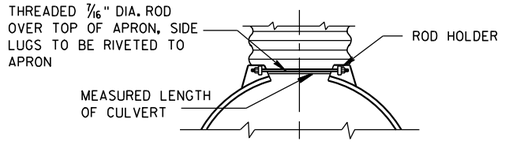


ALTERNATE FOR TYPE 1 CONNECTION

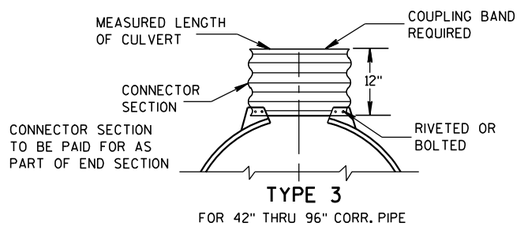
END SECTION CONNECTOR STRAP



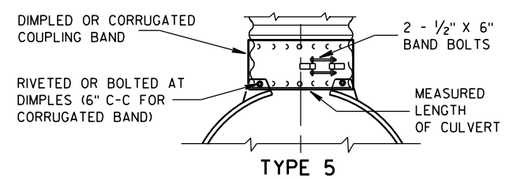
TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

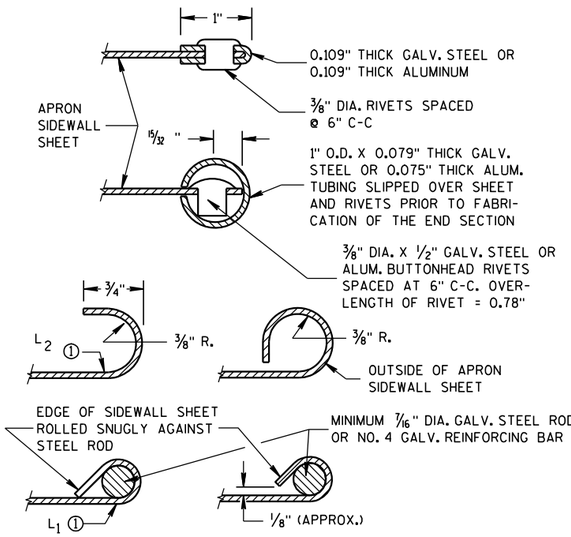
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

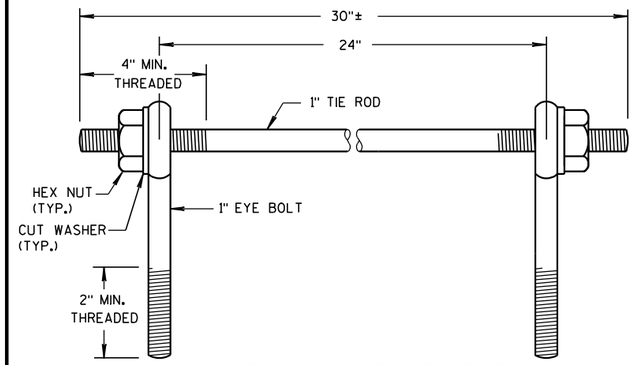
APPROVED
11/30/94
DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

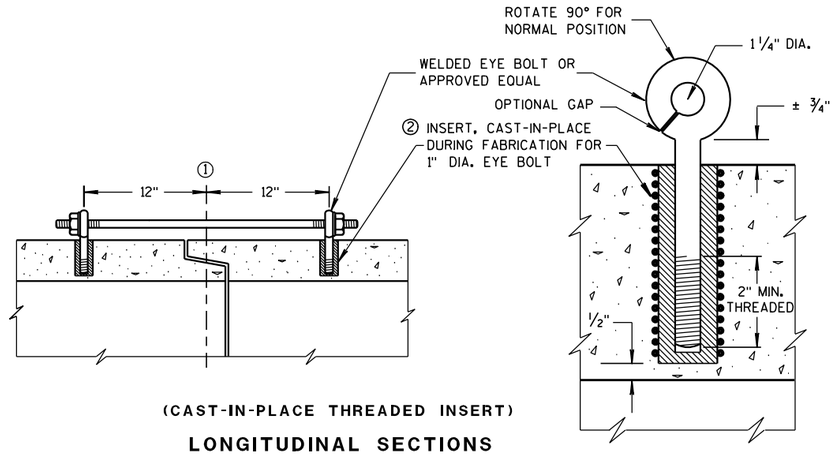
S.D.D. 8 F 1-11

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S.D.D. 8 F 1-11



EYE BOLTS AND TIE ROD



(CAST-IN-PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

① ℄ OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.

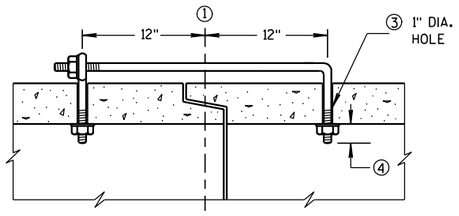
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ℄ OF TONGUE AND GROOVE.

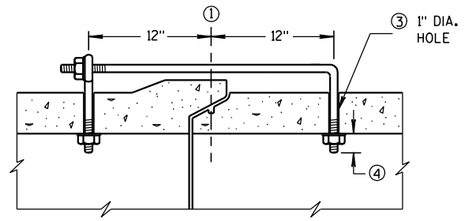
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

⑤ OPENING TO BE ROD DIAMETER PLUS 1 INCH.

⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN 1/2 INCH OF THE INNER SURFACE OF THE PIPE.



(TONGUE & GROOVE PIPE)

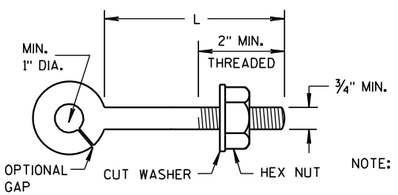


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

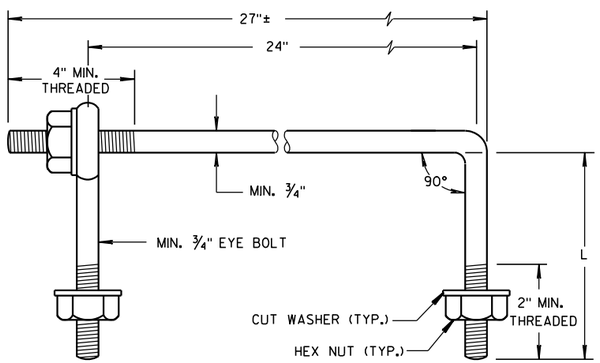
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



NOTE:

EYE BOLT

NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD

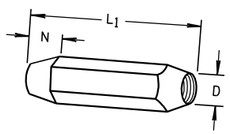
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)

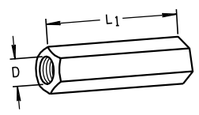
ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12-60	5/8	5/8	5	1/2
66-84	3/4	3/4	5	1/2
90-108	1	1	7	1 1/16

DIMENSIONS SHOWN ARE IN INCHES



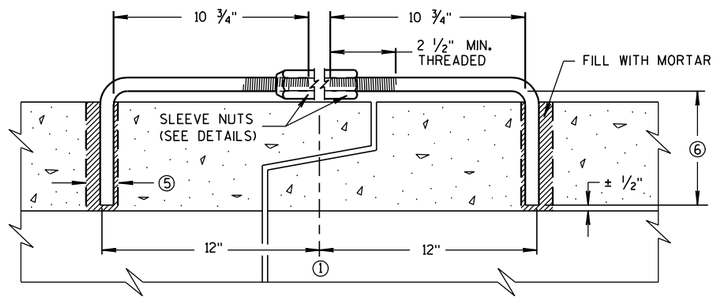
TAPERED



PLAIN

RIGHT AND LEFT THREADS

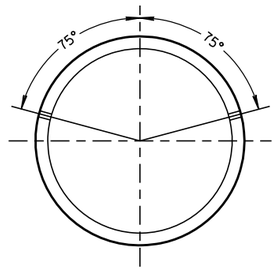
SLEEVE NUTS



LONGITUDINAL SECTION

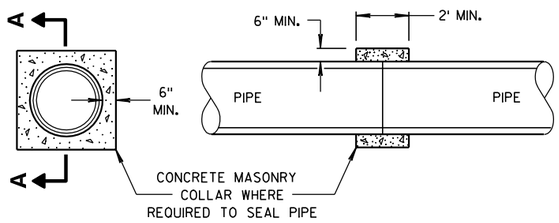
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A-A

CONCRETE COLLAR DETAIL

JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

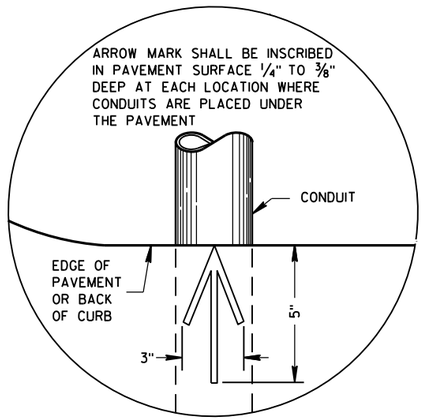
APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

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S.D.D. 8 F 4-7

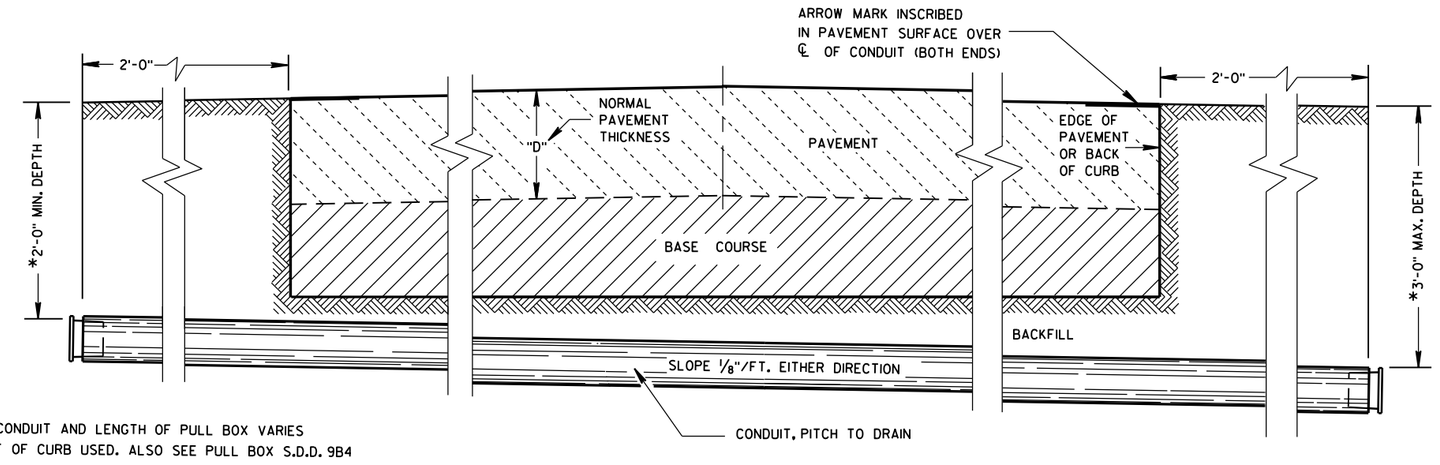
6

S.D.D. 8 F 4-7



PLAN VIEW

ARROW MARK



*DEPTH OF CONDUIT AND LENGTH OF PULL BOX VARIES WITH HEIGHT OF CURB USED. ALSO SEE PULL BOX S.D.D. 9B4

SIDE ELEVATION

DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

METALLIC (STANDARD SPECIFICATION 652.2.2) OR NONMETALLIC (STANDARD SPECIFICATION 652.2.3) CONDUIT SHALL BE FURNISHED AND PLACED AS SHOWN.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

ALL METALLIC CONDUIT IN WHICH WIRE OR CABLE IS TO BE INSTALLED SHALL BE BUSHED WITH APPROVED THREADED BUSHINGS BEFORE INSTALLATION OF THE WIRE OR CABLE.

ALL METALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT TO BE INSTALLED SHALL BE CAPPED WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.

ALL NONMETALLIC CONDUIT SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION AND SHALL REMAIN CAPPED OR PLUGGED UNTIL WIRE/CABLES ARE INSTALLED.

NONMETALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR EMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON NONMETALLIC CONDUIT. (SEE NEC 347.5)

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY U.L. LISTED ADAPTER FITTINGS SHALL BE USED.

PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REINSTALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY ATTACHED.

CONDUIT RUNS SHALL BE THE SAME SIZE OF CONDUIT FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX-OR-JUNCTION BOX TO JUNCTION BOX-OR-BASE TO BASE, ETC.).

TRACER WIRE SHALL BE INSTALLED AS STATED IN THE STANDARD SPECIFICATION, ITEM 652.3.1.1.

ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS.

CONDUIT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March, 2017 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL ENGINEER
FHWA

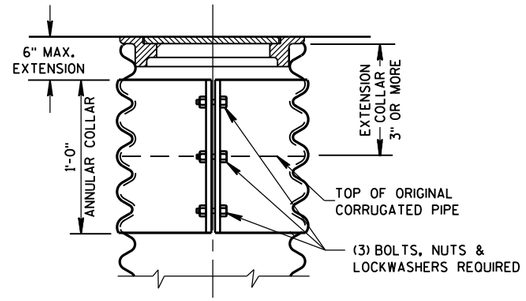
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S.D.D. 9 B 2-10

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

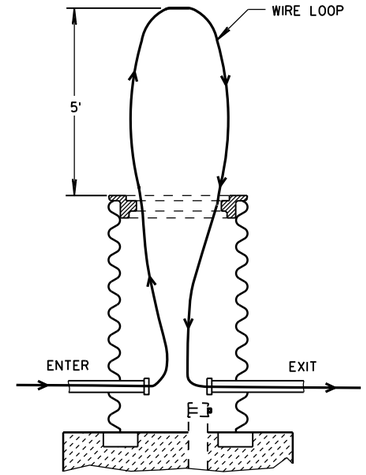
DIMENSION IN INCHES		CORRUGATED STEEL PIPE								
PIPE DIAMETER (INSIDE)	A	12	12	12	18	18	18	24	24	24
PIPE LENGTH **	B	24	30	36	24	30	36	36	42	48
WALL THICKNESS	C	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
COVER	D	10 1/4	10 1/4	10 1/4	16 1/4	16 1/4	16 1/4	22 1/4	22 1/4	22 1/4
FRAME	E	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2	26 1/2	26 1/2	26 1/2
FRAME	F	8 1/2	8 1/2	8 1/2	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2
FRAME	G	11 1/2	11 1/2	11 1/2	17 1/2	17 1/2	17 1/2	23 1/2	23 1/2	23 1/2
WEIGHT IN POUNDS *										
FRAME AND COVER		60	60	60	110	110	110	155	155	155

* THE ACTUAL WEIGHT OF THE MANHOLE FRAME AND COVER MAY VARY WITHIN 5 PERCENT PLUS OR MINUS OF THE WEIGHTS SHOWN.

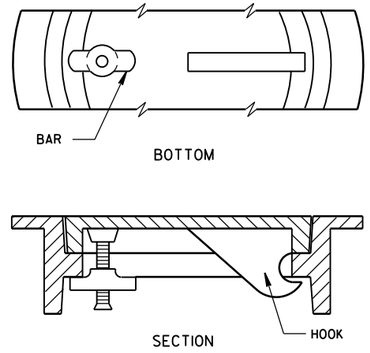
** NORMALLY USED LENGTHS. THE PROJECT ENGINEER SHALL DETERMINE IF PIPE LENGTHS, OTHER THAN THOSE SPECIFIED, SHALL BE USED, TO A MAXIMUM OF 48" (CONTINUOUS LENGTH, NON-SPLICED). THE ADDITIONAL LENGTH SHALL BE INCIDENTAL TO THE PULL BOX BID PRICE.



CORRUGATED PIPE EXTENDER

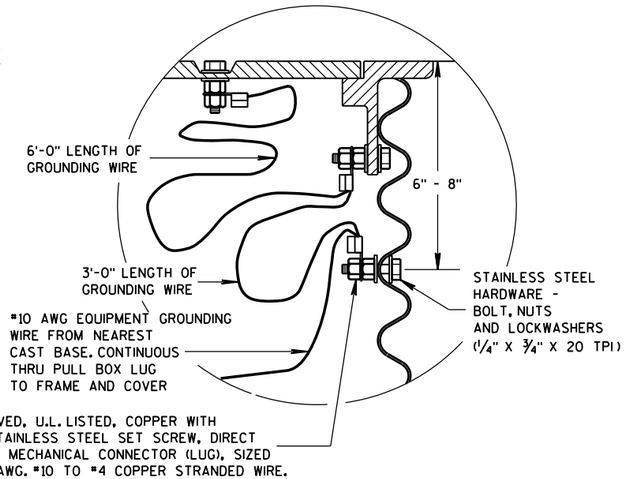


MEASUREMENT DETAIL FOR WIRE/CABLE IN THE PULL BOX

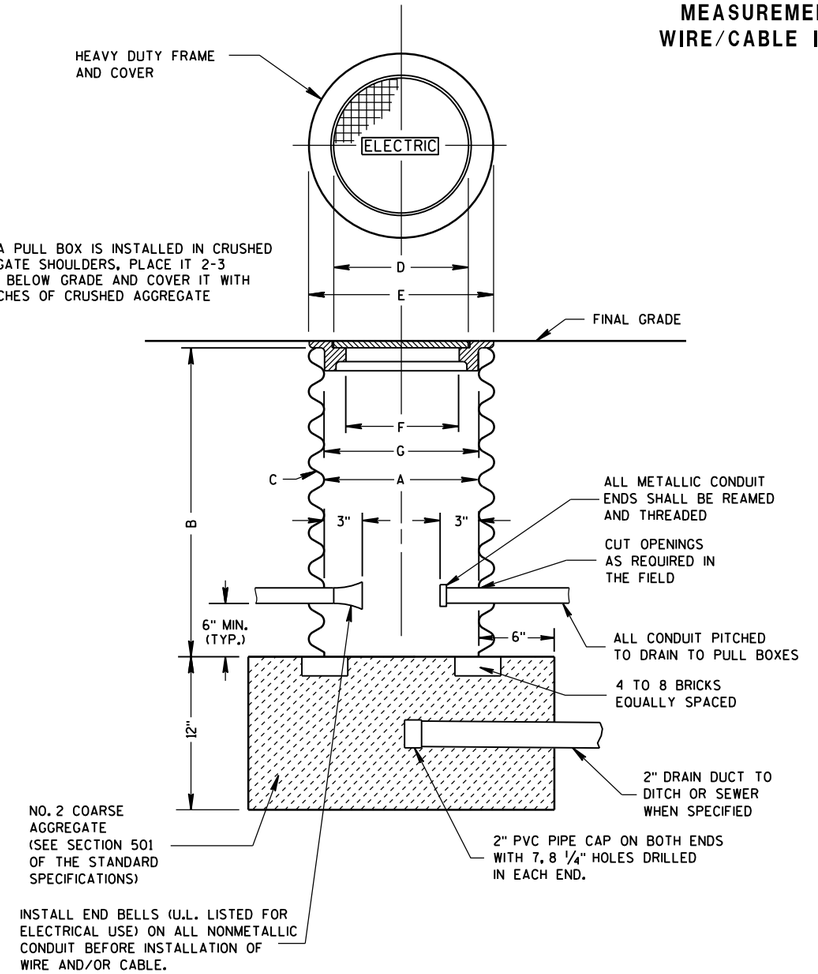


ALTERNATE COVER (LOCKING)

TIGHTENING BAR TYPE



EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES



PULL BOX

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

ALL FRAMES AND COVERS SHALL BE HEAVY DUTY TYPE, SUITABLE FOR VEHICULAR TRAFFIC LOADS.

PULL BOXES LOCATED IN THE ROADWAYS SHALL HAVE LOCKING COVERS.

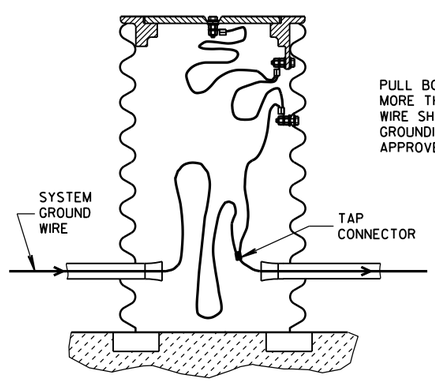
ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN 1/4".

THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

GROUNDING LUGS (MECHANICAL CONNECTORS) SHALL BE U.L. LISTED AND APPROVED FOR USE WITH COPPER WIRE.

ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED, SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.

WHEN PULL BOXES ARE INSTALLED FOR FUTURE USE, DO NOT INSTALL THE EQUIPMENT GROUNDING LUG. THE EQUIPMENT GROUNDING LUG, THE EQUIPMENT GROUNDING ELECTRODE AND THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE REQUIRED AND INSTALLED UNDER A FUTURE WIRING CONTRACT.



PULL BOX TO NEAREST BASE DISTANCE MORE THAN 20 FEET. PULL BOX GROUND WIRE SHALL CONNECT AT SYSTEM GROUNDING WIRE. USE DEPARTMENT APPROVED TAP CONNECTOR.

EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES

PULL BOX

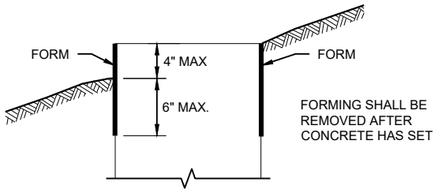
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL ENGINEER
FHWA

6

S.D.D. 9 B 4-11

FORM DEPTH SHALL BE NO MORE THAN 6" BELOW GRADE ON THE LOWER SIDE OF BASE



FORMING DETAIL

QUANTITY REQUIREMENTS	CONCRETE BASE TYPE		
	1	2	5 & 6
APPROX. CUBIC YARDS OF CONCRETE	0.40	0.57	0.40
LBS. OF HOOP BAR STEEL	NONE	23	16
LBS. OF VERTICAL BAR STEEL	NONE	60	18

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWINGSHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE SHOWN ON THE PLANS

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN A THE ENTRANCE OF THE BASE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FRO FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 1 INCH. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION.

WHEN REQUIRED TO CONNECT NON-METALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD) FOR TYPE 2, TYPE 5 AND TYPE 6 BASES.

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER ALL BASE TYPES THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD. ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 OF THE STANDARD SPECIFICATIONS.

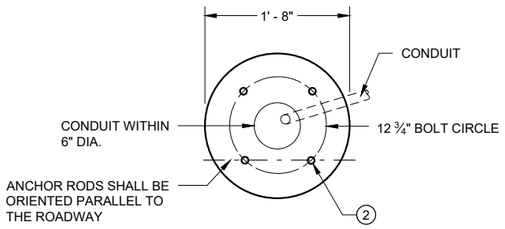
WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

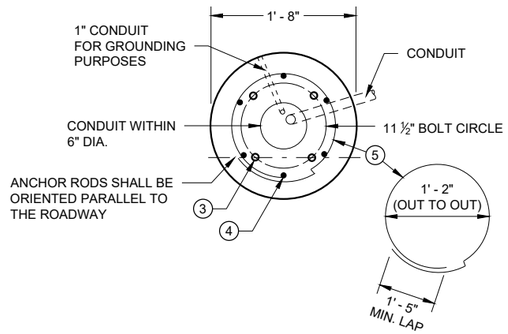
WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4 INCH"L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND SHALL NOT BE THREADED.

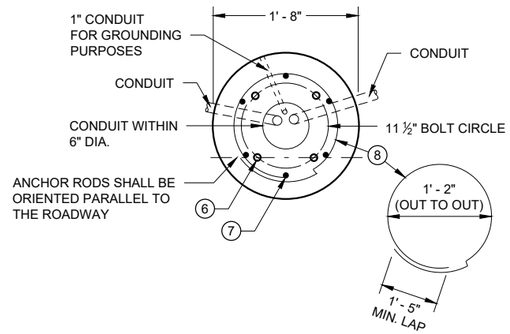
ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TIE WIRES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).







(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES EXCEPT WITH WRITTEN APPROVAL OF THE ENGINEER.

(2) (4) 1" DIA. X 3' - 6" ANCHOR RODS.

(3) (4) 1" DIA. X 5' - 0" ANCHOR RODS.

(4) (6) NO. 6 X 6' - 8" BAR STEEL REINFORCEMENT.

(5) (7) NO. 4 X 5' - 1" BAR STEEL REINFORCEMENT @ 1' - 0" C - C.

(6) (4) 1" DIA. X 3' - 6" ANCHOR RODS.

(7) (6) NO. 4 X 4' - 8" BAR STEEL REINFORCEMENT.

(8) (5) NO. 4 X 5' - 1" BAR STELL REINFORCEMENT @ 1' - 0" C -C.

(9) EXOTHERMIC CONNECTION TO EUIPMENT GROUNDING CONDUCTOR

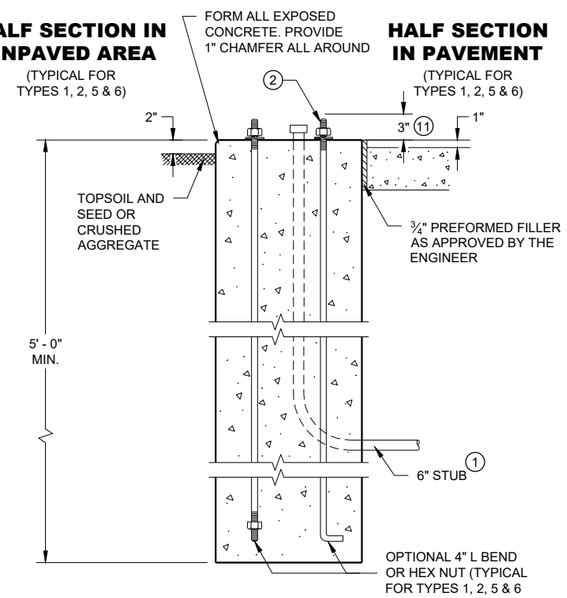
(10) ⅝" DIA. X 8' -0" COPPERCLAD EQUIPMENT GROUNDING ELECTRODE REQUIRED

(11) ANY ANCHOR ROD PROJECTION SHORTER THAN 2 ¾" OR LONGER THAN 3 ¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

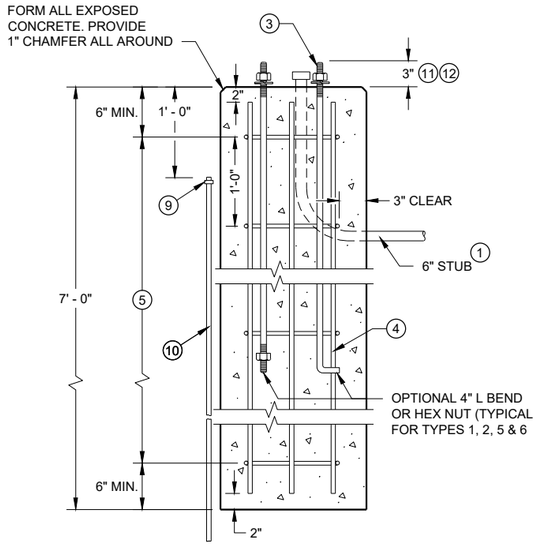
(12) FOR NON - BREAKAWAY INSTALLATIONS, 4 ½" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.

HALF SECTION IN UNPAVED AREA
(TYPICAL FOR TYPES 1, 2, 5 & 6)

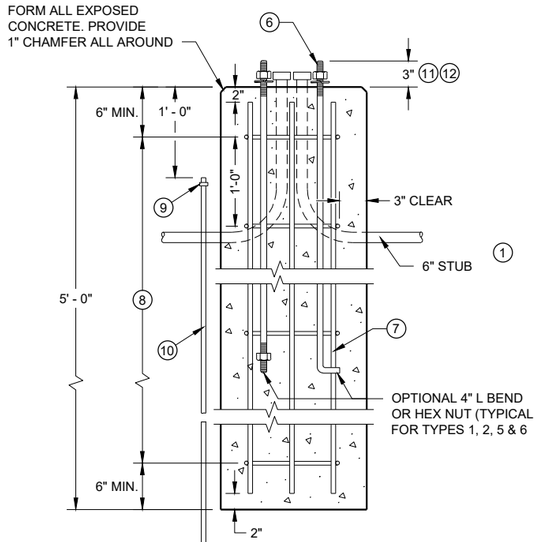
HALF SECTION IN PAVEMENT
(TYPICAL FOR TYPES 1, 2, 5 & 6)



TYPE 1



TYPE 2



TYPE 5 & 6

CONCRETE BASES

CONCRETE BASES TYPES 1, 2, 5, & 6

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGINEER

FHWA

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

FOUR (4) BOLTS SHALL BE FURNISHED WITH EACH TRANSFORMER BASE. BOLTS SHALL BE 1" DIAMETER, 4" IN LENGTH, WITH WASHERS, LOCK WASHERS AND NUTS. BOLTS, NUTS AND WASHERS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 531.2.2 OF THE STANDARD SPECIFICATIONS.

LEVELING SHIMS, IF NEEDED, SHALL BE DESIGNED FOR THE PURPOSE AND USED UNDER CAST BASES WHEN PLUMBING POLES OR STANDARDS DURING INSTALLATION. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE.

SHIM LENGTH SHALL BE LONG ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.

DOUBLE NUTTING IS NOT ACCEPTABLE FOR LEVELING OR MOUNTING PURPOSES.

A NEMA APPROVED, U.L. LISTED, COPPER WITH BRASS OR STAINLESS STEEL SET SCREW, DIRECT BURY RATED, MECHANICAL CONNECTOR (LUG), SIZED TO ACCEPT AWG. #10 TO #4 COPPER STRANDED WIRE SHALL BE FURNISHED AND INSTALLED IN THE PEDESTAL AND TRANSFORMER BASES.

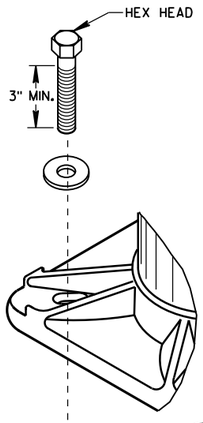
THE MECHANICAL CONNECTOR SHALL BE INSTALLED USING A 1/4" - 20 (TPI) STAINLESS STEEL HEX HEAD BOLT OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE.

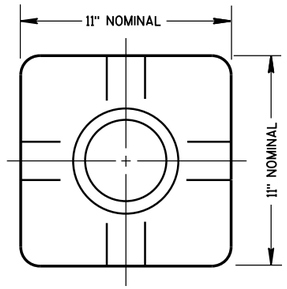
SHOULD THE MANNER OF ATTACHMENT OF THE LUG REQUIRE WASHERS, HEX NUTS, LOCK WASHER - THEY SHALL BE STAINLESS STEEL AS IS THE BOLT. THE MANNER OF ATTACHMENT SHALL NOT BLOCK ACCESSIBILITY TO WIRE PLACEMENT IN THE CONNECTOR.

PEDESTAL BASE COLLAR THREADING SHALL BE TAPERED AND IN ACCORDANCE WITH NATIONAL PIPE THREADING DIMENSIONS.

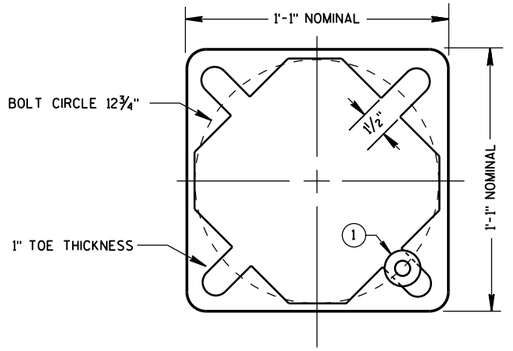
BASE COLLAR THREADING SHALL EXTEND INTO THE BASE COLLAR WITH SUFFICIENT DEPTH TO ACCEPT THE INSTALLATION OF TRAFFIC SIGNAL STANDARDS TO A DEPTH OF 1 1/2", THEN TIGHTENING TO A POINT OF BEING IMMOVABLE.

THE ACCESS DOOR SHALL BE OF THE SAME MATERIAL AS THE BASE.

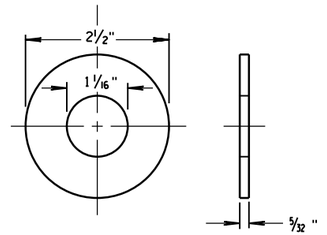




TOP VIEW
(PEDESTAL BASE)

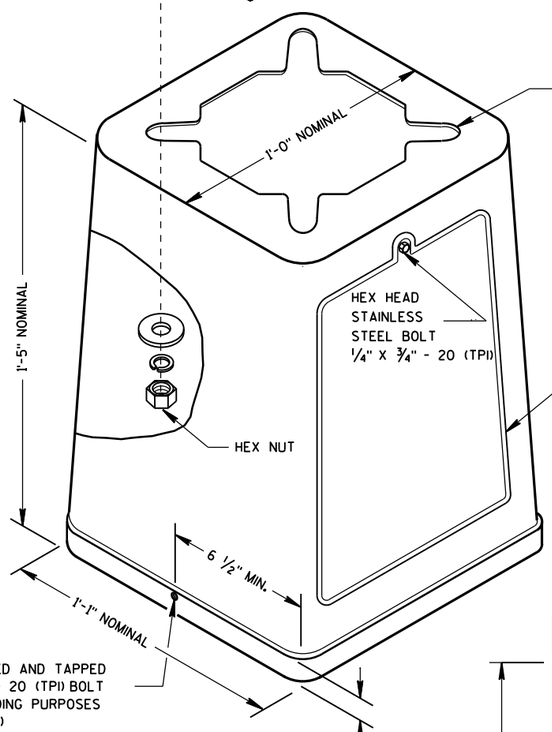


BOTTOM VIEW
(PEDESTAL BASE)

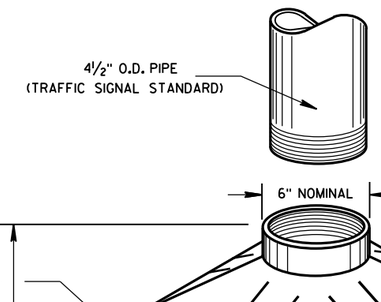


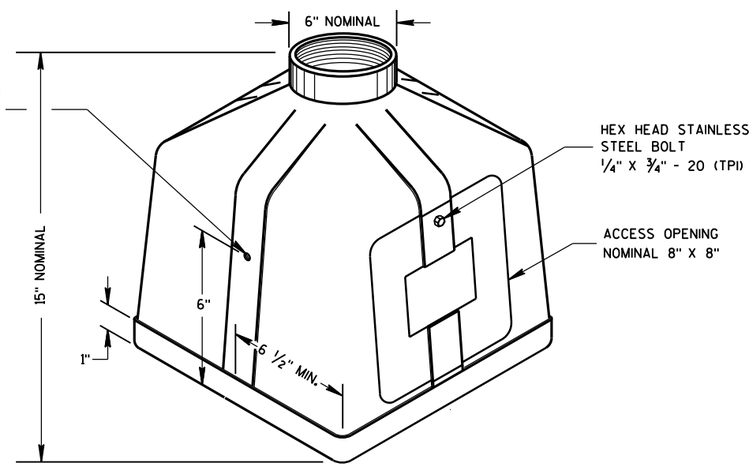
ZINC COATED STEEL WASHER
TO BE PROVIDED BY THE CONTRACTOR

PEDESTAL BASE WASHER (1)



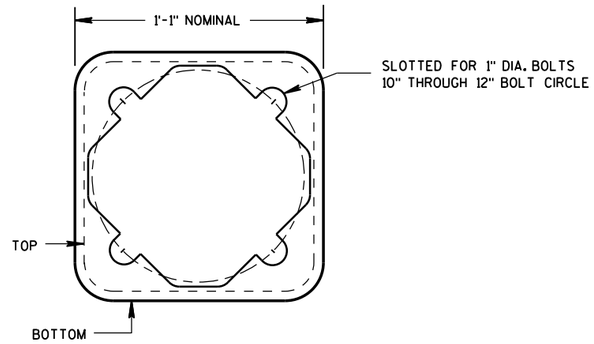
ISOMETRIC VIEW



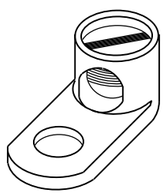


ISOMETRIC VIEW

PEDESTAL BASE



BOTTOM VIEW
(TRANSFORMER BASE)

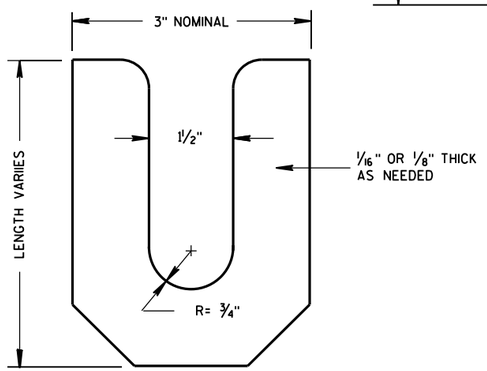


TYPICAL MECHANICAL CONNECTOR LUG

TO BE FURNISHED WITH EACH BASE

TRANSFORMER BASE

INTENDED FOR USE WITH TYPE 2, 3, 4, 5 & 6 POLES



LEVELING SHIM

TRANSFORMER/PEDESTAL BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

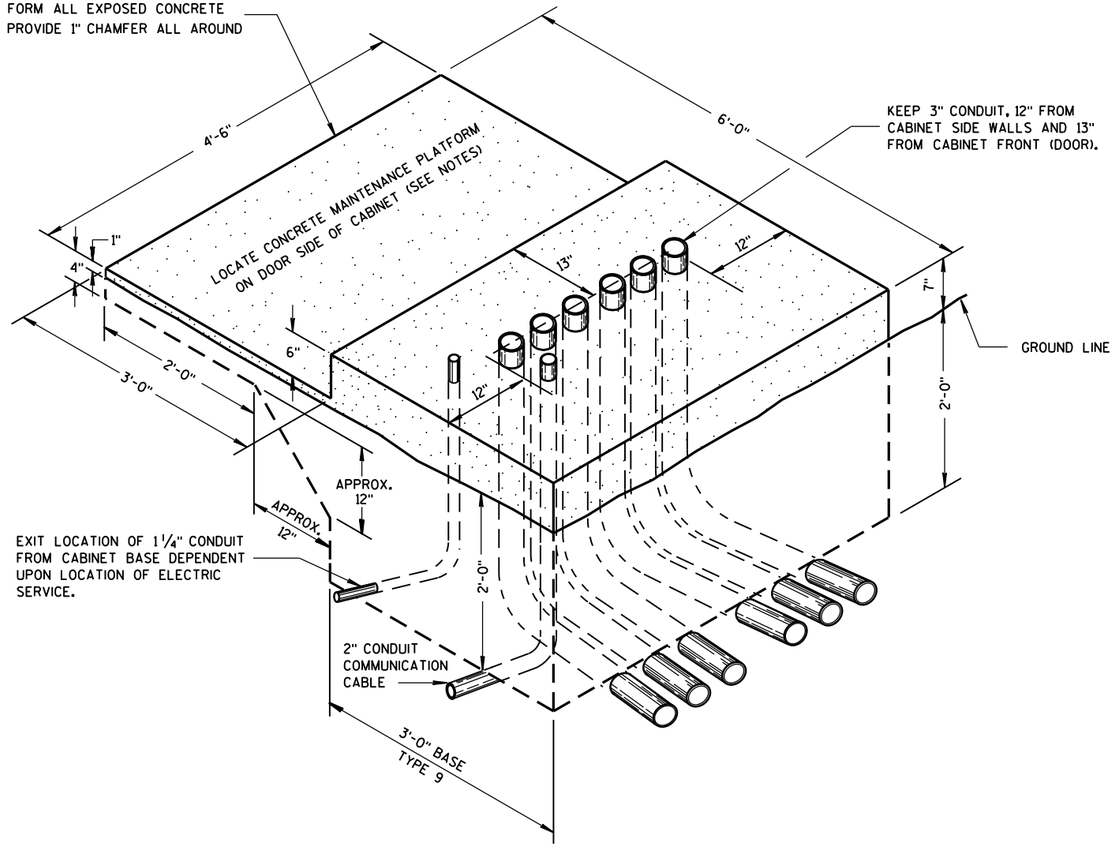
APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL ENGINEER
FHWA

6

S.D.D. 9 C 3-4

6

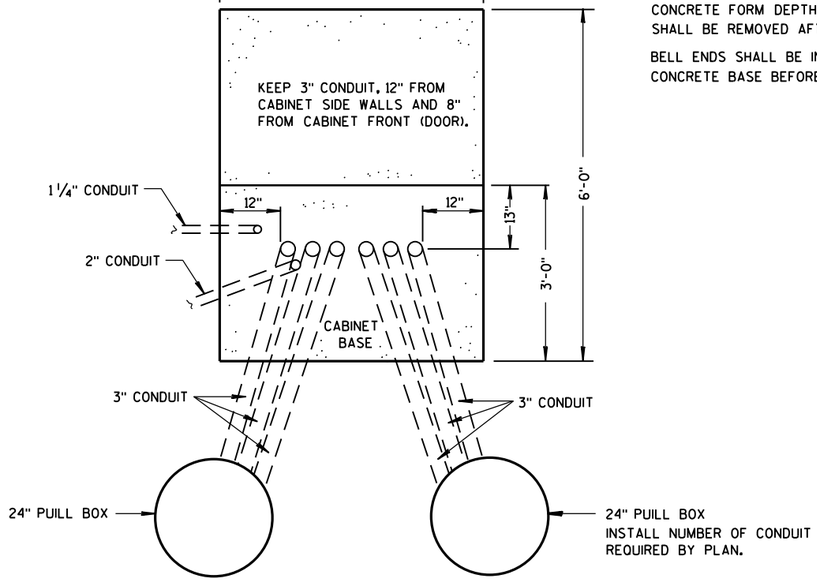
S.D.D. 9 C 3-4



ISOMETRIC VIEW

TYPE 9, SPECIAL

(C.Y. CONCRETE = APPROX. 1.56)



PLAN VIEW

CONCRETE CONTROL CABINET BASE, TYPE 9, SPECIAL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

INSTALL FOUR ½ INCH MINIMUM DIAMETER X 4 INCH MINIMUM LENGTH STAINLESS STEEL APPROVED CONCRETE MASONRY ANCHORS WITH A PULLOUT STRENGTH OF 9,000 LBS. TO ANCHOR THE CABINET TO TYPE 6, 7, 8, AND 9 BASES. THE ANCHOR STUDS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER TO PROPERLY ANCHOR THE CONTROL CABINET TO THE BASE.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 1 INCH.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

CONTROL CABINET BASE TOP SURFACE SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

MAINTENANCE PLATFORM SHALL BE FLOAT OR BROOM FINISHED AND BE LEVEL.

MAINTENANCE PLATFORMS ARE NOT REQUIRED WHEN THE SURROUNDING AREA IS PAVED.

MINIMUM BENDING RADIUS OF CONDUIT = 6 X THE DIAMETER.

ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

CAP ALL BELOW GRADE METALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

PLUG ALL BELOW GRADE NONMETALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

CONDUIT EXITING THE CONCRETE BASE (SIX THREE INCH) SHALL TERMINATE IN PULL BOXES AS SHOWN ON THE PLANS.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6" MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF THE CONCRETE BASE BEFORE INSTALLATION OF CABLE OR WIRE.

CONCRETE CONTROL CABINET BASE, TYPE 9, SPECIAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL ENGINEER
FHWA

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN AT THE ENTRANCE OF THE BASE.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 4 INCHES. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED. NONMETALLIC CONDUIT SHALL HAVE BELL END INSTALLED. ALL CONDUIT SHALL BE SLOPED TO PULL BOX.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUIT IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FOR FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG, STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD).

THE EQUIPMENT GROUNDING CONDUCTOR SHALL ENTER THE BASE THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TEMPLATES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

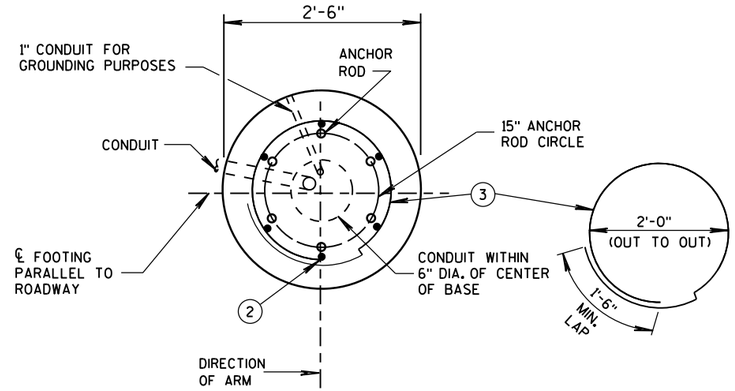
ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

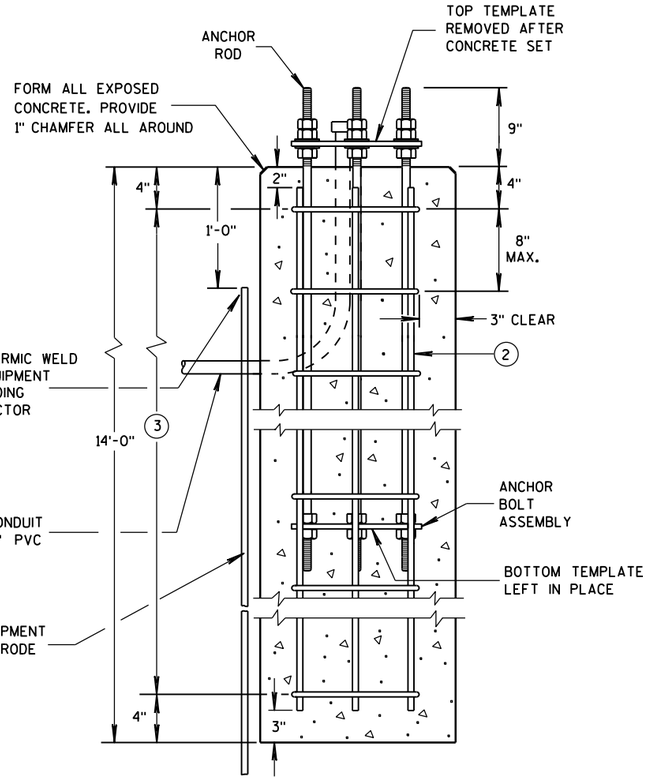
(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES, (GREATER THAN 36 INCHES IF INSTALLED IN BREAKER-RUN), EXCEPT WITH WRITTEN APPROVAL BY THE ENGINEER.

(2) (6) NO. 6 X 13'-7" BAR STEEL REINFORCEMENT.

(3) (21) NO. 5 X 7'-10" BAR STEEL REINFORCEMENT @ 8" MAX. C-C.

CONCRETE MASONRY	fc=3,500 p.s.i.
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60	fy=60,000 p.s.i.
ANCHOR RODS, ASTM F1554 GRADE 55 (IN ACCORDANCE WITH SECTION 531.2.2 OF THE STANDARD SPECIFICATION)	fy=55,000 p.s.i.
TEMPLATES, ASTM, A709 GRADE 36	fy=36,000 p.s.i.

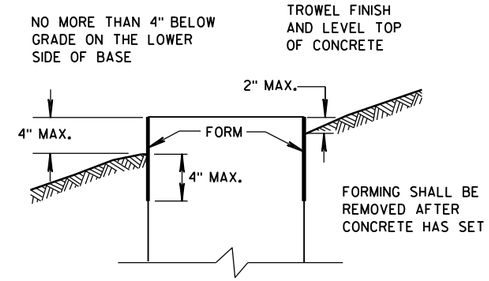




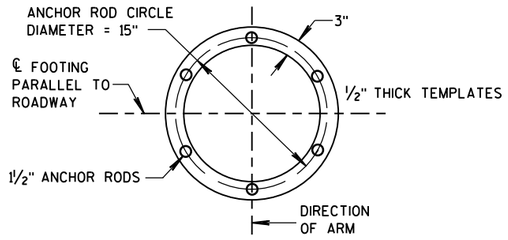
CONCRETE BASE TYPE 10

(FOR TYPE 9 & 10 & OVER HEIGHT (OH) POLES)

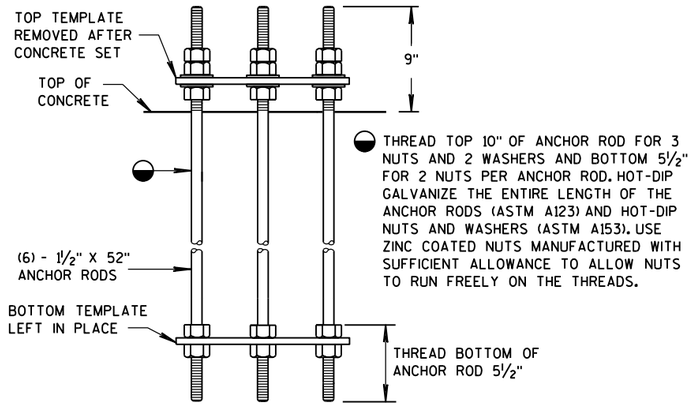
TO BE USED WHEN GROUND ELEVATION AT BASE EQUALS OR IS GREATER THAN HIGH POINT OF ROADWAY ELEVATION. SEE S.D.D. 9C13-2 WHEN GROUND ELEVATION AT BASE IS LOWER THAN HIGH POINT OF ROADWAY ELEVATION.



FORMING DETAIL



TOP AND BOTTOM TEMPLATES



ANCHOR BOLT ASSEMBLY DETAIL

CONCRETE BASE TYPE 10 ANCHOR ASSEMBLY

QUANTITY REQUIREMENTS	
APPROX. CUBIC YARDS OF CONCRETE	2.5
LBS. OF HOOP BAR STEEL	172
LBS. OF VERTICAL BAR STEEL	122

CONCRETE BASE TYPE 10

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

May 2017 — DATE

/S/ Ahmet Demirbilek — STATE ELECTRICAL ENGINEER

FHWA

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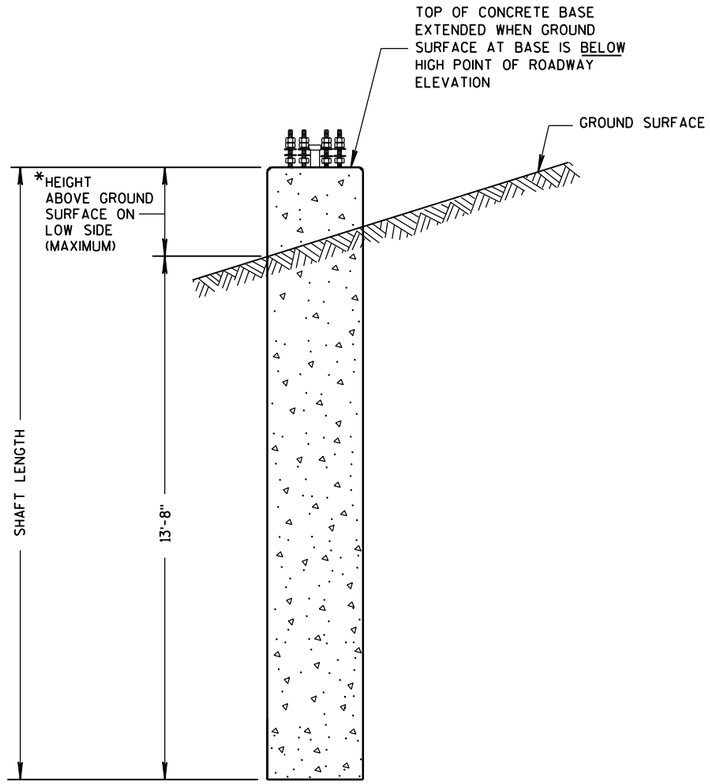
S.D.D. 9 C 11-10

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S.D.D. 9 C 11-10

REINFORCEMENT AND CONCRETE QUANTITIES
ADJUSTED FOR EXTENDED TYPE 10 CONCRETE BASE

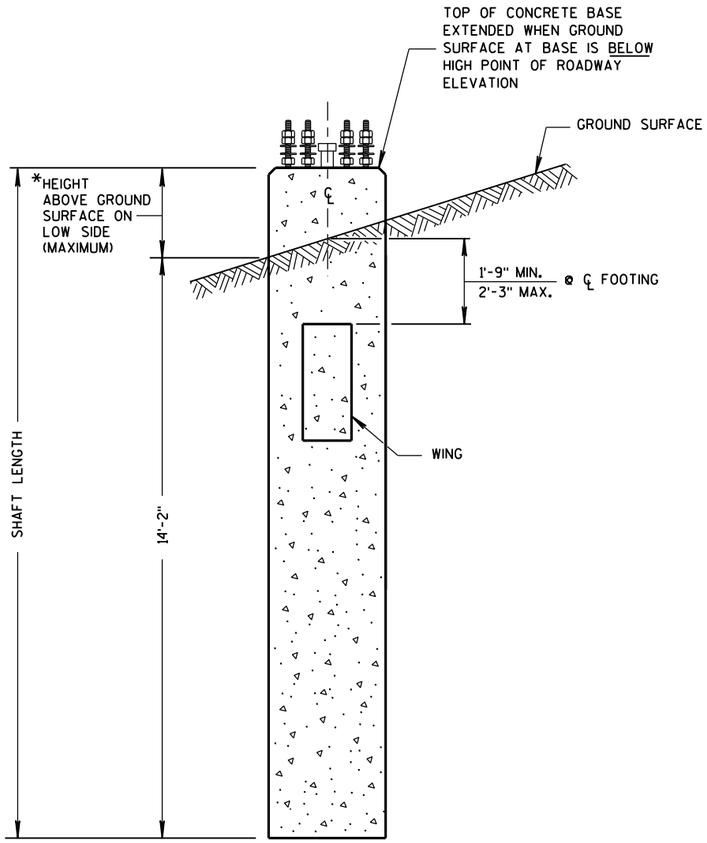
HEIGHT INCREASE REQUIRED	* HEIGHT ABOVE GROUND SURFACE ON LOW SIDE (MAXIMUM)	SHAFT LENGTH	LENGTH OF #6 VERTICAL REINF.	NO. OF #4 HOOPS	C.Y. OF CONCRETE	LBS. OF HOOP BAR STEEL	LBS. OF VERTICAL BAR STEEL
>0" TO 6"	10"	14'-6"	14'-1"	16	2.6	78	127
>6" TO 1'-0"	1'-4"	15'-0"	14'-7"	16	2.7	78	131
>1'-0" TO 1'-6"	1'-10"	15'-6"	15'-1"	17	2.8	83	136
>1'-6" TO 2'-0"	2'-4"	16'-0"	15'-7"	17	2.9	83	141



CONCRETE BASE TYPE 10 (EXTENDED)

REINFORCEMENT AND CONCRETE QUANTITIES
ADJUSTED FOR EXTENDED TYPE 13 CONCRETE BASE

HEIGHT INCREASE REQUIRED	* HEIGHT ABOVE GROUND SURFACE ON LOW SIDE (MAXIMUM)	SHAFT LENGTH	LENGTH OF #6 VERTICAL REINF.	NO. OF #4 HOOPS	C.Y. OF CONCRETE	LBS. OF H.S. BAR STEEL
>0" TO 6"	10"	15'-0"	14'-7"	16	6.5	447
>6" TO 1'-0"	1'-4"	15'-6"	15'-1"	16	6.6	454
>1'-0" TO 1'-6"	1'-10"	16'-0"	15'-7"	17	6.8	469
>1'-6" TO 2'-0"	2'-4"	16'-6"	16'-1"	17	7.0	476



CONCRETE BASE TYPE 13 (EXTENDED)

CONCRETE BASE
TYPE 10 & TYPE 13 EXTENSION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11-26-2013
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGINEER

FHWA

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S.D.D. 9 C 13-2

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S.D.D. 9 C 13-2

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

BASES (SHAFT) SHALL BE EXCAVATED BY THE USE OF A CIRCULAR AUGER. IF BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE SOIL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING. A STEEL CASING OR CORRUGATED METAL PIPE IS ALLOWED TO REMAIN. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BASE IN LAYERS OF ONE FOOT OR LESS.

TOP SURFACE OF THE CONCRETE BASE SHALL BE TROWEL FINISHED AND LEVEL.

ANY DAMAGE TO THE CONCRETE BASE AND ANCHOR RODS DURING CONSTRUCTION OPERATIONS SHALL BE REPAIRED AT THE ENGINEER'S DIRECTION, AT THE EXPENSE OF THE CONTRACTOR.

THE REINFORCEMENT AND ANCHOR RODS SHALL BE ADEQUATELY SUPPORTED IN THE PROPER POSITIONS SO NO MOVEMENT OCCURS DURING CONCRETE PLACEMENT.

ORIENT ANCHOR RODS IN FOOTING AND PROVIDE ANCHOR RODS STICK OUT ABOVE TOP OF CONCRETE FOOTING BASE PER THIS SHEET.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

BENDING DIMENSIONS FOR REINFORCING BARS ARE OUT TO OUT.

WELDING OF ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TEMPLATES SHALL BE USED.

USE 3" CLEAR FOR ALL REINFORCEMENT UNLESS NOTED OTHERWISE.

FORM ALL EXPOSED CONCRETE CORNERS WITH 1" CHAMFER ALL AROUND. TOP OF THE CONCRETE BASE SHALL BE TROWEL FINISHED AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE SHOWN ON THE PLANS.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 TIMES THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 4 ½" INCHES. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED. NON-METALLIC CONDUIT SHALL HAVE BELL ENDS INSTALLED. ALL CONDUIT SHALL SLOPE TO PULL BOX.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

WHEN REQUIRED TO CONNECT NON-METALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

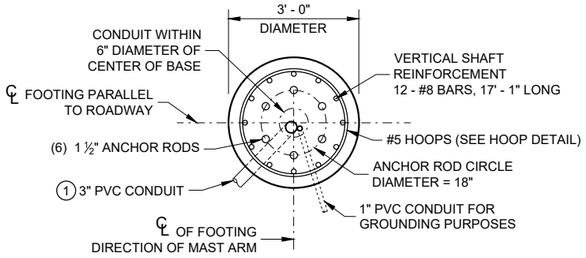
A NO. 4 AWG STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD).

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER THE BASE THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

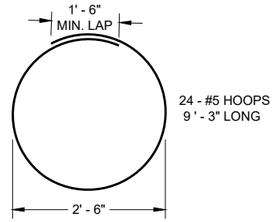
THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN A THE ENTRANCE OF THE BASE.

(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES (GREATER THAN 36 INCHES IF INSTALLED IN BREAKER RUN) EXCEPT WITH WRITTEN APPROVAL OF THE ENGINEER.

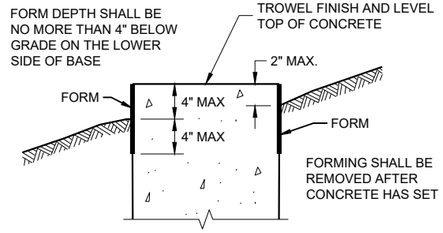
CONCRETE MASONRY.....fc = 3,500 p.s.i
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60.....fy = 60,000 p.s.i.
ANCHOR RODS, ASTM F1554 GRADE 55 (IN ACCORDANCE WITH SECTION 531.2.2 OF THE STANDARD SPECIFICATION).....fy = 55,000 p.s.i.
TEMPLATES, ASTM A709, GRADE 36.....fy = 36,000 p.s.i.



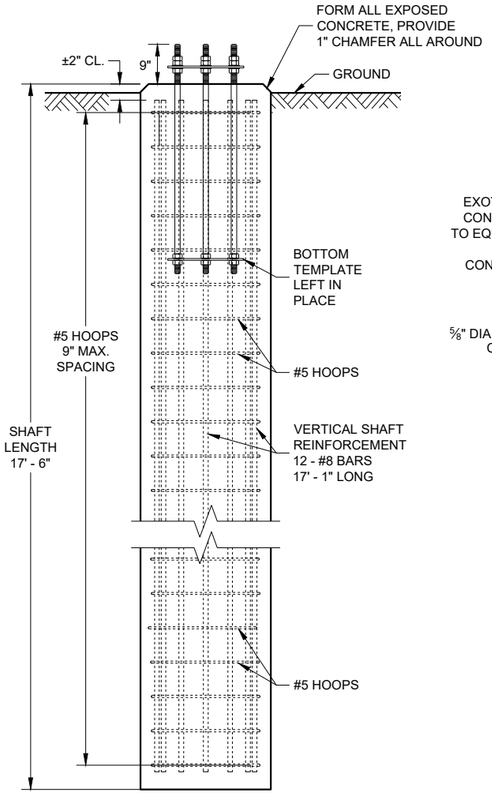
PLAN VIEW



HOOP DETAIL

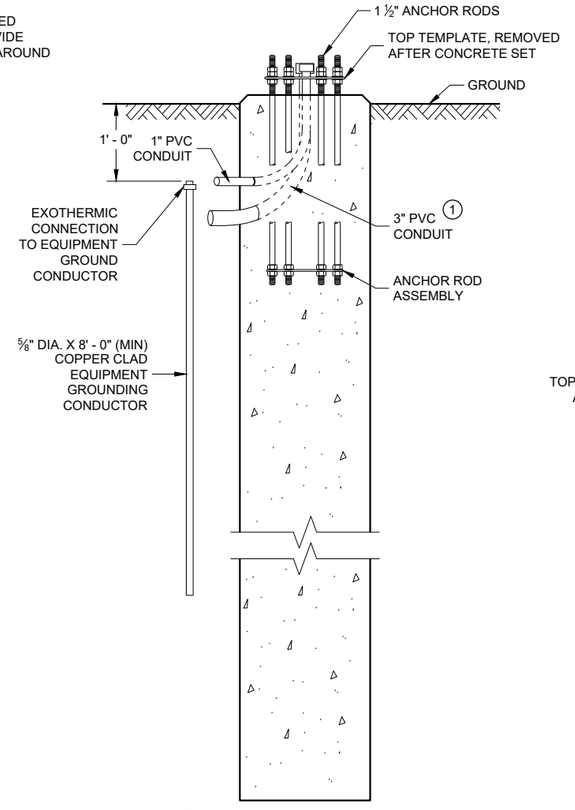


FORMING DETAIL



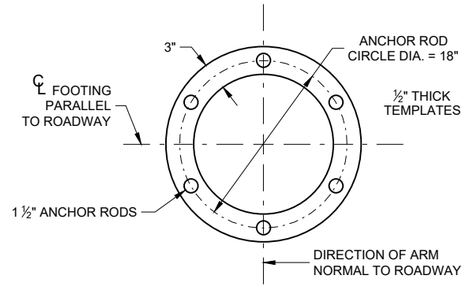
ELEVATION VIEW

(CONDUITS NOT SHOWN ON THIS VIEW FOR CLARITY)

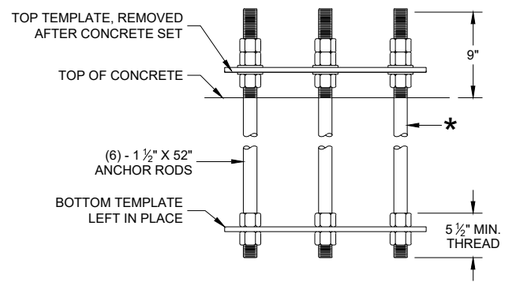


SIDE VIEW

(HOOPS AND VERTICAL SHAFT REINFORCEMENT NOT SHOWN ON THIS VIEW FOR CLARITY)



TOP AND BOTTOM TEMPLATE



ANCHOR ROD ASSEMBLY DETAILS

* THREAD TOP 10" OF ANCHOR ROD FOR 3 NUTS AND 2 WASHERS AND BOTTOM 5 ½" FOR 2 NUTS PER ANCHOR ROD. HOT DIP GALVANIZE THE ENTIRE LENGTH OF THE ANCHOR ROD (ASTM A123) AND HOT DIP NUTS AND WASHERS (ASTM A153. USE ZINC COATED NUTS MANUFACTURED WITH SUFFICIENT ALLOWANCE TO ALLOW NUTS TO RUN FREELY ON THE THREADS.

CONCRETE BASE, TYPE 10 SPECIAL
(FOR TYPE 9 SPECIAL AND TYPE 10 SPECIAL POLES)

CONCRETE = 4.6 CUBIC YARD
H.S. REINFORCEMENT = 779 LBS.

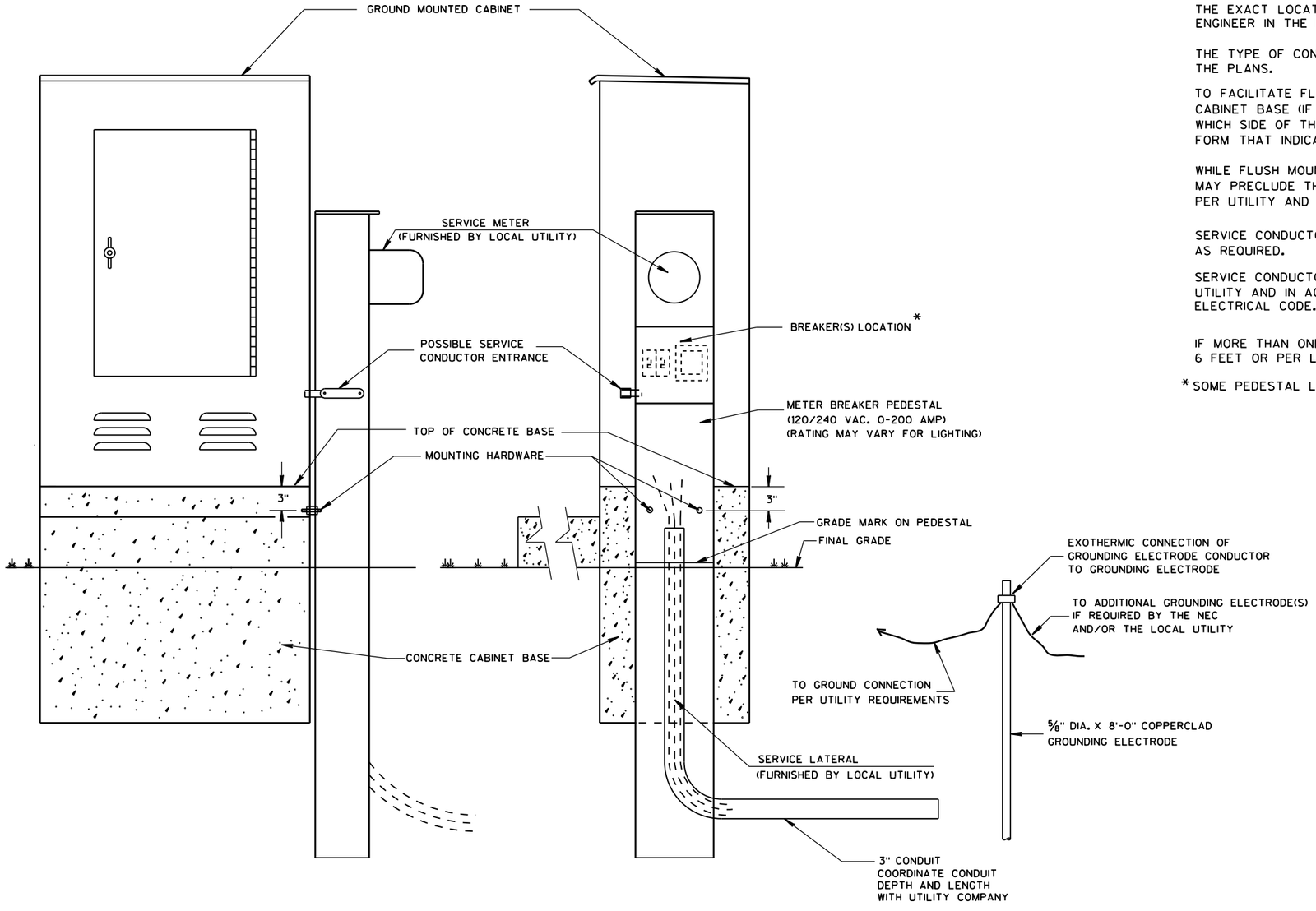
FOR USE WHEN GROUND ELEVATION AT BASE EQUALS OR IS GREATER THAN HIGH POINT OF ROADWAY ELEVATION.

CONCRETE BASE TYPE 10 SPECIAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020 — DATE
/S/ Alex Crabtree — WIND LOADED STRUCTURES PROGRAM LEADER
FHWA

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SDD 09C15 - 01



TYPICAL CABINET SERVICE INSTALLATION

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

THE EXACT LOCATION OF THE METER BREAKER PEDESTAL SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE TYPE OF CONCRETE CABINET BASE TO BE INSTALLED SHALL BE AS CALLED FOR IN THE PLANS.

TO FACILITATE FLUSH MOUNTING OF THE METER BREAKER PEDESTAL AGAINST THE SIDE OF THE CABINET BASE (IF FLUSH MOUNTING POSSIBLE. CONFER WITH THE LOCAL UTILITY TO DETERMINE WHICH SIDE OF THE CONCRETE BASE THE ELECTRICAL SERVICE LATERAL WILL APPROACH. THEN FORM THAT INDICATED SIDE FOR FULL SIDE DEPTH.

WHILE FLUSH MOUNTING IS THE MOST DESIRABLE MOUNTING CONFIGURATION UTILITY REQUIREMENTS MAY PRECLUDE THIS OPTION. CONTRACTOR MUST PROVIDE UTILITY APPROVED PEDESTAL AND INSTALL PER UTILITY AND MANUFACTURERS REQUIREMENTS.

SERVICE CONDUCTOR ENTRANCES SHALL BE RIGID METALLIC CONDUIT, NIPPLES AND/OR CONDULETS AS REQUIRED.

SERVICE CONDUCTOR ENTRANCES SHALL BE SIZED AND LOCATED AS REQUIRED BY THE LOCAL UTILITY AND IN ACCORDANCE WITH APPROPRIATE ARTICLES OF THE LATEST ACCEPTED NATIONAL ELECTRICAL CODE.

IF MORE THAN ONE GROUNDING ELECTRODE IS REQUIRED, THE DISTANCE APART SHALL BE 6 FEET OR PER LOCAL UTILITY REGULATIONS.

* SOME PEDESTAL LIGHTING PLANS SHOW MAIN LUGS ONLY.

CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)

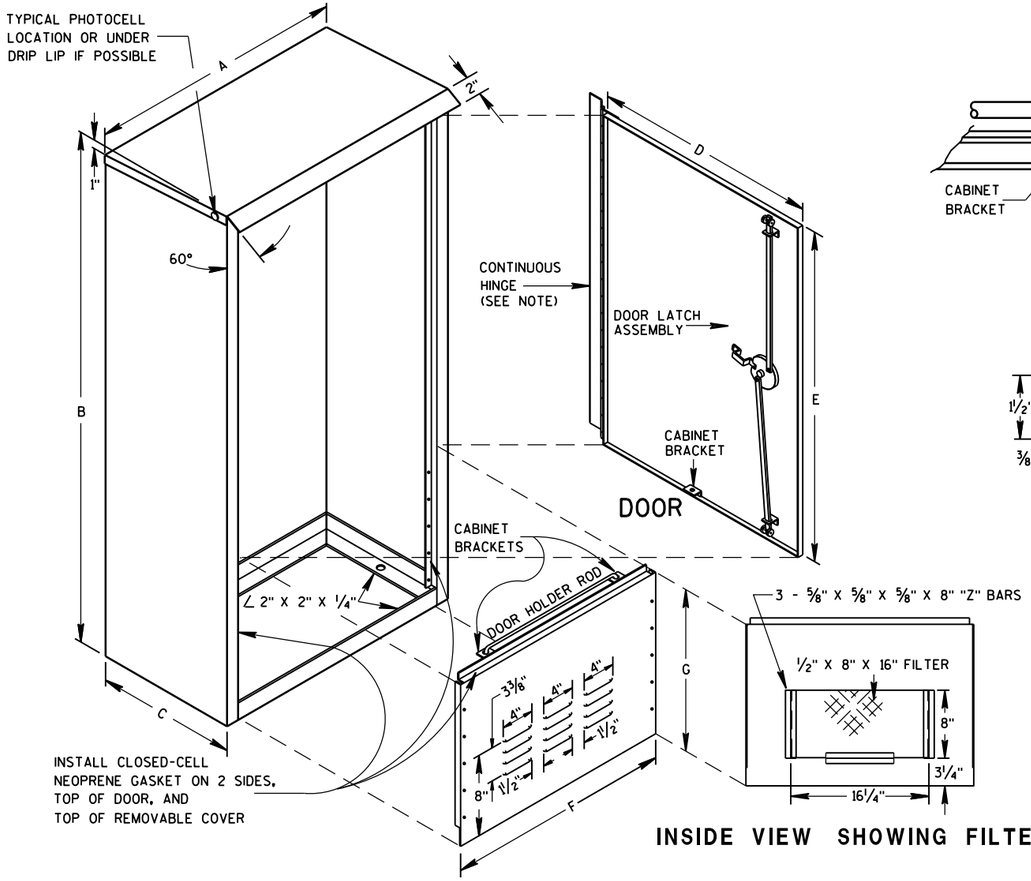
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGINEER

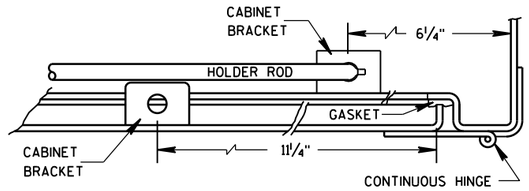
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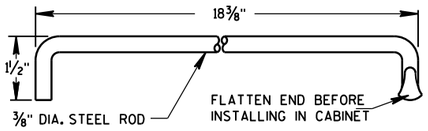


REMOVABLE COVER

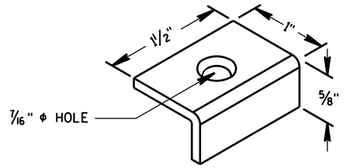
INSIDE VIEW SHOWING FILTER



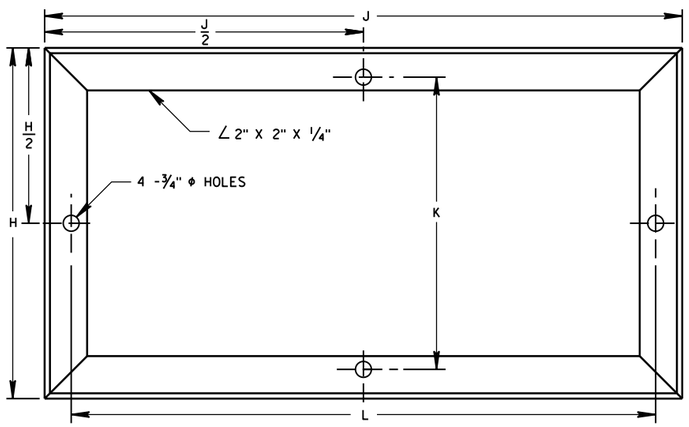
HINGE & DOOR HOLDER



HOLDER ROD



CABINET BRACKET



MOUNTING BASE

TABLE OF DIMENSIONS (INCHES)

MARK	CABINET TYPE		
	3060	3860	3866
A	30	38	38
B	60	60	66
C	16 1/2	16 1/2	24
D	26 1/2	34 3/4	33 3/4
E	38 3/4	38 3/4	38 3/4
F	26 1/2	34 3/4	33 3/4
G	19	19	25
H	16 1/2	16 1/2	24
H/2	8 1/4	8 1/4	12
J	30	38	38
J/2	15	19	19
K	13 3/4	13 3/4	21 1/4
L	27 1/2	35 1/2	35 1/2

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

PRIME WITH PHOSPHATE TREATMENT AND PRIMER.

FINISH EXTERIOR SURFACES WITH RUSTOLEUM #906 SILVER GRAY OR APPROVED EQUAL.

FINISH INTERIOR WITH RUSTOLEUM #2766 HIGH GLOSS WHITE ENAMEL OR APPROVED EQUAL.

ALL SHEET METAL PARTS SHALL BE .125 INCH THICK ALUMINUM.

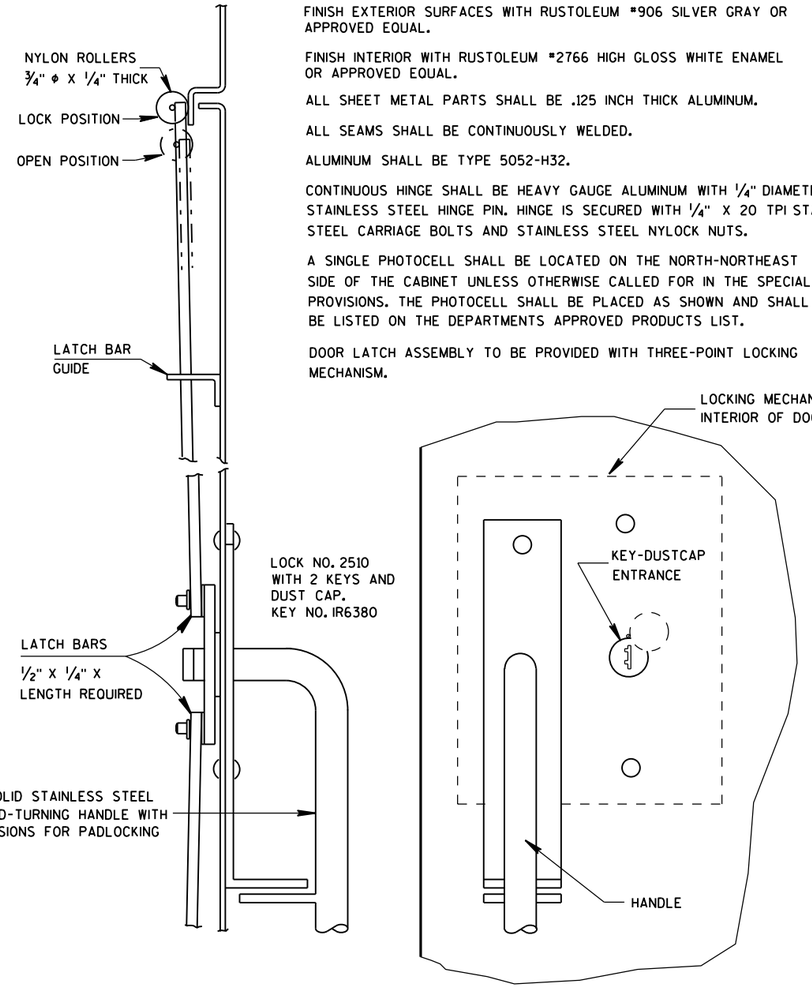
ALL SEAMS SHALL BE CONTINUOUSLY WELDED.

ALUMINUM SHALL BE TYPE 5052-H32.

CONTINUOUS HINGE SHALL BE HEAVY GAUGE ALUMINUM WITH 1/4" DIAMETER STAINLESS STEEL HINGE PIN. HINGE IS SECURED WITH 1/4" X 20 TPI STAINLESS STEEL CARRIAGE BOLTS AND STAINLESS STEEL NYLOCK NUTS.

A SINGLE PHOTOCELL SHALL BE LOCATED ON THE NORTH-NORTHEAST SIDE OF THE CABINET UNLESS OTHERWISE CALLED FOR IN THE SPECIAL PROVISIONS. THE PHOTOCELL SHALL BE PLACED AS SHOWN AND SHALL BE LISTED ON THE DEPARTMENTS APPROVED PRODUCTS LIST.

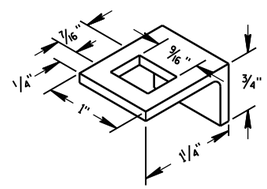
DOOR LATCH ASSEMBLY TO BE PROVIDED WITH THREE-POINT LOCKING MECHANISM.



SIDE VIEW

FRONT VIEW

LATCH ASSEMBLY



LATCH BAR GUIDE

SIGNAL CONTROL CABINET

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGINEER

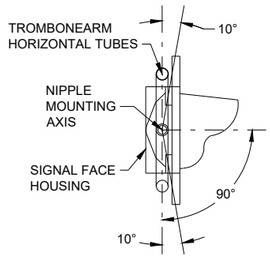
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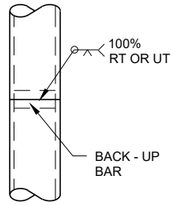


SECTION A-A

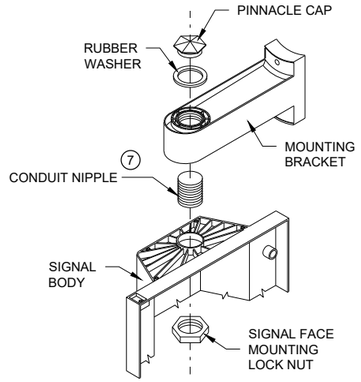
(10 DEGREES TILT REQUIREMENT OF FACE(S) IN THE TROMBONE MOUNTING)

FOR MANUFACTURERS USE ONLY

WELD TO BE 100% R.T. OR U.T. TESTED AS PER THE REQUIREMENTS OF AWS D 1.5-88. RECORDS OF COMPLIANCE OF SUCH TESTING SHALL BE FURNISHED TO THE OFFICE OF DESIGN / BRIDGE FOR VERIFICATION AND APPROVAL.



POLE SPLICE DETAIL



SIGNAL FACE MOUNTING DETAIL

(BANDED)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THEPERTINENT REQUIREMENTS OF THE CONTRACT.

POLES SHALL BE EITHER ALUMINUM OR GALVANIZED STEEL AS CALLED FOR IN THE CONTRACT.

SECTION 657, POLES, OF THE STANDARD SPECIFICATIONS SHALL APPLY TO THIS DRAWING.

A PULL WIRE / ROPE SHALL BE INSTALLED IN EACH TROMBONE ARM RACEWAY DURING THE MANUFACTURING PROCESS.

TYPE 2 ALUMINUM POLES SHALL BE CONSTRUCTED OF 6063 - T6 ALUMINUM ALLOY. SLEEVING INSIDE THE POLE IS NOT ACCEPTABLE.

WHEN TRANSFORMER BASES ARE USED, WIRE CONNECTIONS SHALL BE MADE IN THE TRANSFORMER BASE.

(1) 4" X 6" REINFORCED HANDHOLE AND COVER ASSEMBLY WITH TWO (2) ¼" X ¾" - 20 TPI , STAINLESS STEEL, HEX HEAD BOLTS.

(2) SIGNAL FACE MOUNTING BRACKETS. MOUNT WITH CAP SCREWS AND BANDING.

(3) GROMMETS. 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1 ⅜" HOLE IN POLE SHAFT FOR WIRING.

(4) SECURELY MOUNT DULL BLACK POLYCARBONATE BACKPLATES, PROJECTING 5" BEYOND ALL SIDES OF THE SIGNAL FACE HOUSING,PER MANUFACTURER'S RECOMMENDATIONS.

(5) POLE MOUNTED SIGNAL FACES SHALL REQUIRE ONE OR MORE MOUNTING SPACERS UNDER THE TOP MOUNTING BRACKET(S) ASREQUIRED, TO PLUMB THE SIGNAL FACES.

(6) CAST ALUMINUM TRANSFORMER BASE, WHEN REQUIRED.

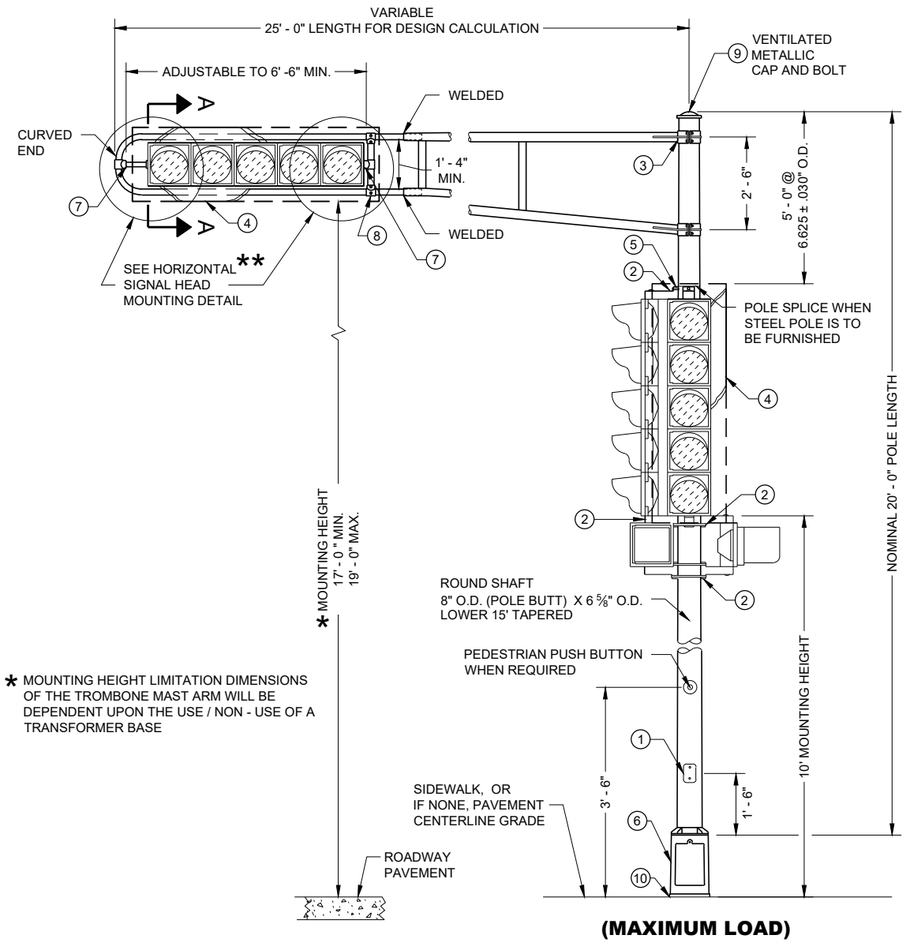
(7) USE 1 ½" ID NIPPLES ZINC-COATED RIGID METAL CONDUIT, LONG ENOUGH TO ACCOMMODATE FULL DEPTH THREADING INTO THE HEAD MOUNTING LOCK NUT IN ORDER TO TIGHTEN THE FACE, BUT THAT DO NOTINTERFERE WITH REFLECTOR CLOSURE. THREAD THE NIPPLE INTO THE MOUNTING BRACKET/ELBOW UNTIL TIGHT. USE APPROVED PINNACLE TYPE HARDWARE FROM A DEPARTMENT APPROVED MANUFACTURER TO CLOSE THE UNUSED 1 ½" OPENING IN SIGNAL FACES AND BRACKET ENDS.

(8) VERTICAL STRUT (ADJUSTABLE). ONE (1) SET SCREW (¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD) INTO EACH ARM MEMBER IF STRUTIS THE SLIDING TYPE.

(9) FURNISH AND INSTALL VENTILATED, CAST METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.

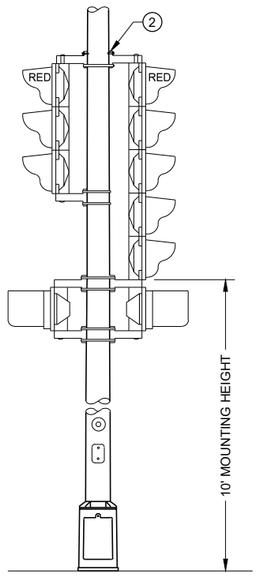
(10) SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND THE TRANSFORMER BASE.

(11) USE SERRATED LOCK WASHERS WITH NOTCHES BETWEEN END TEE AND SIGNAL HEAD.

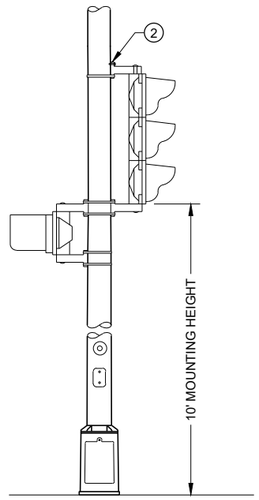


* MOUNTING HEIGHT LIMITATION DIMENSIONS OF THE TROMBONE MAST ARM WILL BE DEPENDENT UPON THE USE / NON - USE OF A TRANSFORMER BASE

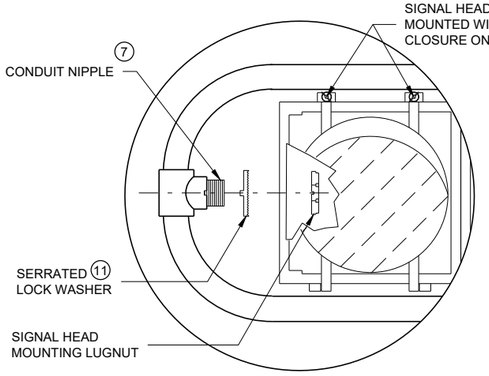
(MAXIMUM LOAD)



TYPICAL MOUNTING OF BACK TO BACK 3 AND 5 SECTION SIGNAL FACES



TYPICAL MOUNTING OF 3 SECTION SIGNAL FACE



HORIZONTAL SIGNAL HEAD MOUNTING DETAIL **

** SIGNAL HEAD ATTACHMENT ALSO APPLIES TO MOUNTING AT CROSS BAR

TYPE 2 POLE MOUNTING CONFIGURATION

POLE MOUNTINGS FOR TRAFFIC SIGNALS TYPE 2

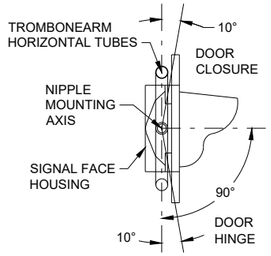
STATE OF WISCONSIN
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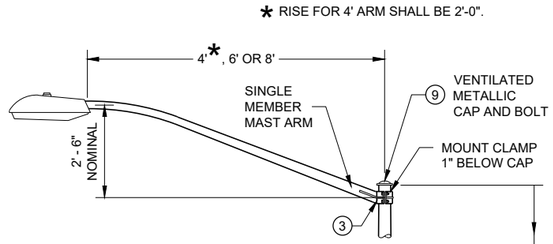
SDD 09E01 - 15a

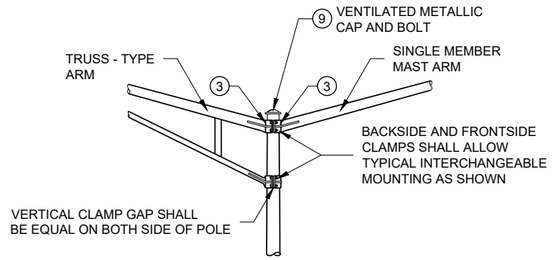
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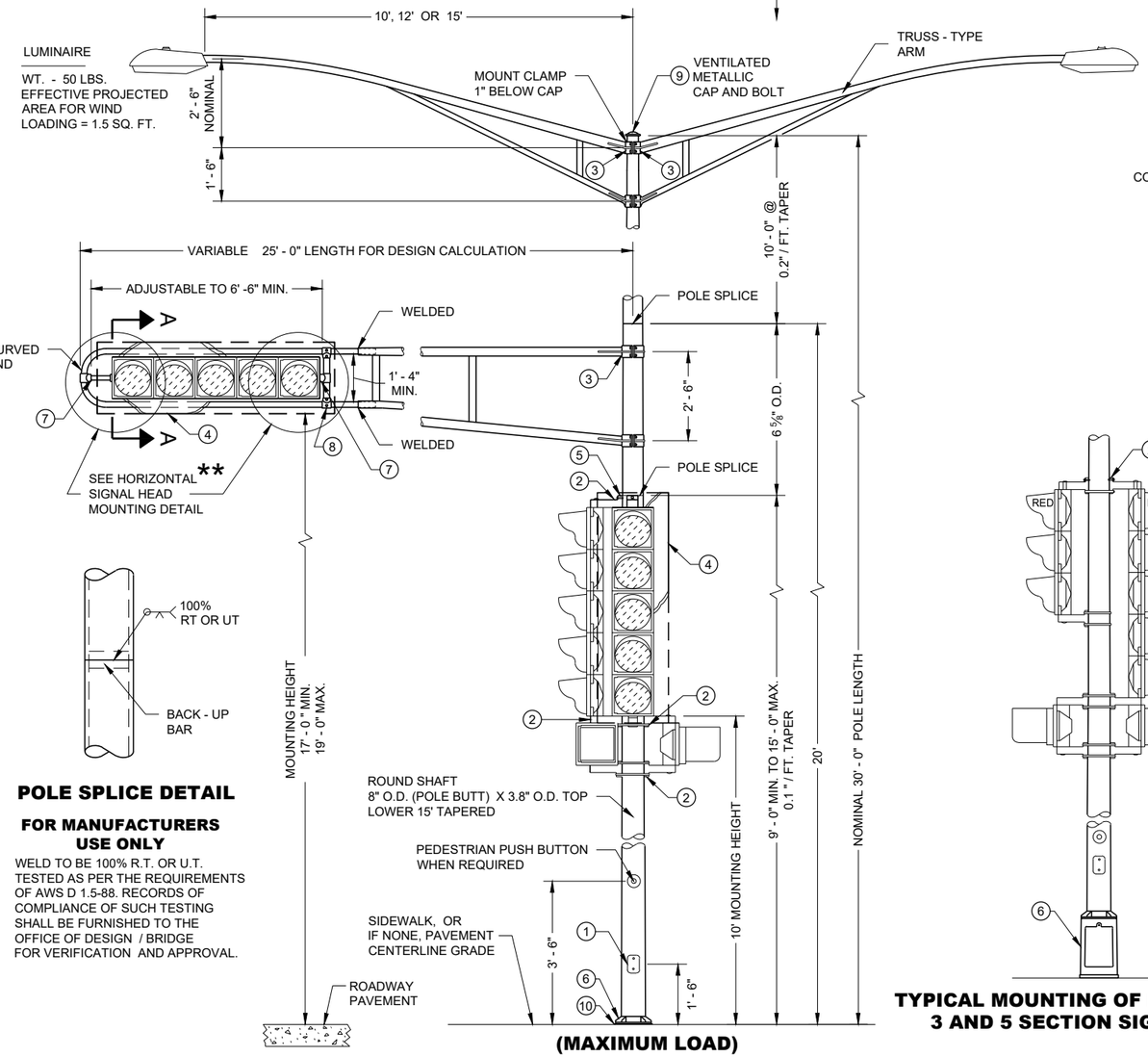


SECTION A-A

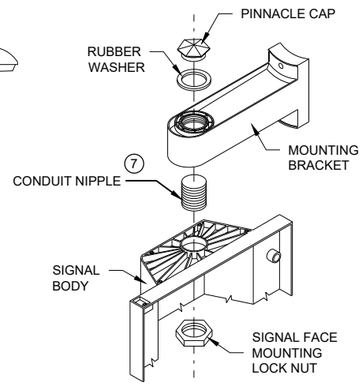




INTERCHANGEABLE MOUNTING DETAIL



(MAXIMUM LOAD)

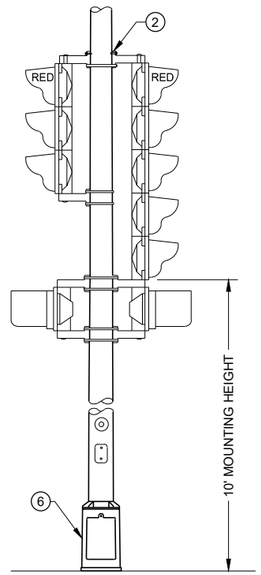


SIGNAL FACE MOUNTING DETAIL
(BANDED)

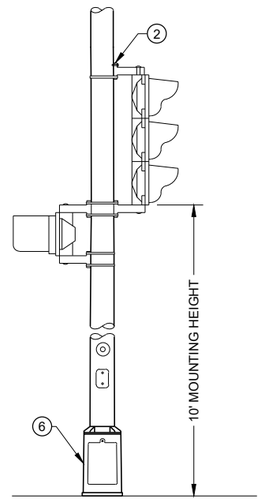
POLE SPLICE DETAIL

FOR MANUFACTURERS USE ONLY

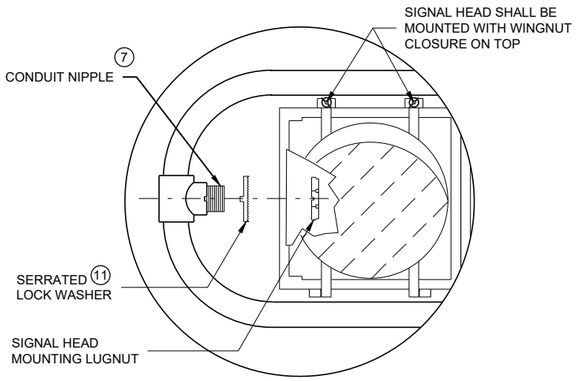
WELD TO BE 100% R.T. OR U.T. TESTED AS PER THE REQUIREMENTS OF AWS D 1.5-88. RECORDS OF COMPLIANCE OF SUCH TESTING SHALL BE FURNISHED TO THE OFFICE OF DESIGN / BRIDGE FOR VERIFICATION AND APPROVAL.



TYPICAL MOUNTING OF BACK TO BACK 3 AND 5 SECTION SIGNAL FACES



TYPICAL MOUNTING OF 3 SECTION SIGNAL FACE



HORIZONTAL SIGNAL HEAD ** MOUNTING DETAIL

** SIGNAL HEAD ATTACHMENT ALSO APPLIES TO MOUNTING AT CROSS BAR

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

ALL TYPE 3 POLE MOUNTINGS SHALL BE DESIGNED TO INCLUDE TWIN 15' ARMS WITH LUMINAIRES.

POLES SHALL BE GALVANIZED STEEL.

SECTION 657, POLES, OF THE STANDARD SPECIFICATIONS SHALL APPLY TO THIS DRAWING.

A PULL WIRE / ROPE SHALL BE INSTALLED IN EACH TROMBONE ARM RACEWAY DURING THE MANUFACTURING PROCESS.

THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 2 3/8 INCHES IN OUTSIDE DIAMETER. THE STRAIGHT PORTION OF THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 12 INCHES IN LENGTH.

WHEN TRANSFORMER BASES ARE USED, WIRE CONNECTIONS SHALL BE MADE IN THE TRANSFORMER BASE.

(1) 4" X 6" REINFORCED HANDHOLE AND COVER ASSEMBLY WITH TWO (2) ¼" X ¾" - 20 TPI , STAINLESS STEEL, HEX HEAD BOLTS.

(2) SIGNAL FACE MOUNTING BRACKETS. MOUNT WITH CAP SCREWS AND BANDING.

(3) GROMMETS. 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1 3/8" HOLE IN POLE SHAFT FOR WIRING.

(4) SECURELY MOUNT DULL BLACK POLYCARBONATE BACKPLATES, PROJECTING 5" BEYOND ALL SIDES OF THE SIGNAL FACE HOUSING, PER MANUFACTURER'S RECOMMENDATIONS.

(5) POLE MOUNTED SIGNAL FACES SHALL REQUIRE ONE OR MORE MOUNTING SPACERS UNDER THE TOP MOUNTING BRACKET(S) AS REQUIRED, TO PLUMB THE SIGNAL FACE.

(6) CAST ALUMINUM TRANSFORMER BASE, WHEN REQUIRED. UNDER MAX LOADING, TYPE 3 POLE SHALL BE MOUNTED DIRECTLY TO ITS CONCRETE BASE.

(7) USE 1 ½" ID NIPPLES ZINC-COATED RIGID METAL CONDUIT, LONG ENOUGH TO ACCOMMODATE FULL DEPTH THREADING INTO THE HEAD MOUNTING LOCK NUT IN ORDER TO TIGHTEN THE FACE, BUT THAT DO NOT INTERFERE WITH REFLECTOR CLOSURE. THREAD THE NIPPLE INTO THE MOUNTING BRACKET/ELBOW UNTIL TIGHT. USE APPROVED PINNACLE TYPE HARDWARE FROM A DEPARTMENT APPROVED MANUFACTURER TO CLOSE THE UNUSED 1 ½" OPENING IN SIGNAL FACES AND BRACKET ENDS.

(8) VERTICAL STRUT (ADJUSTABLE). ONE (1) SET SCREW (¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD) INTO EACH ARM MEMBER IF STRUT IS THE SLIDING TYPE.

(9) FURNISH AND INSTALL VENTILATED, CAST METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.

(10) SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND POLE.

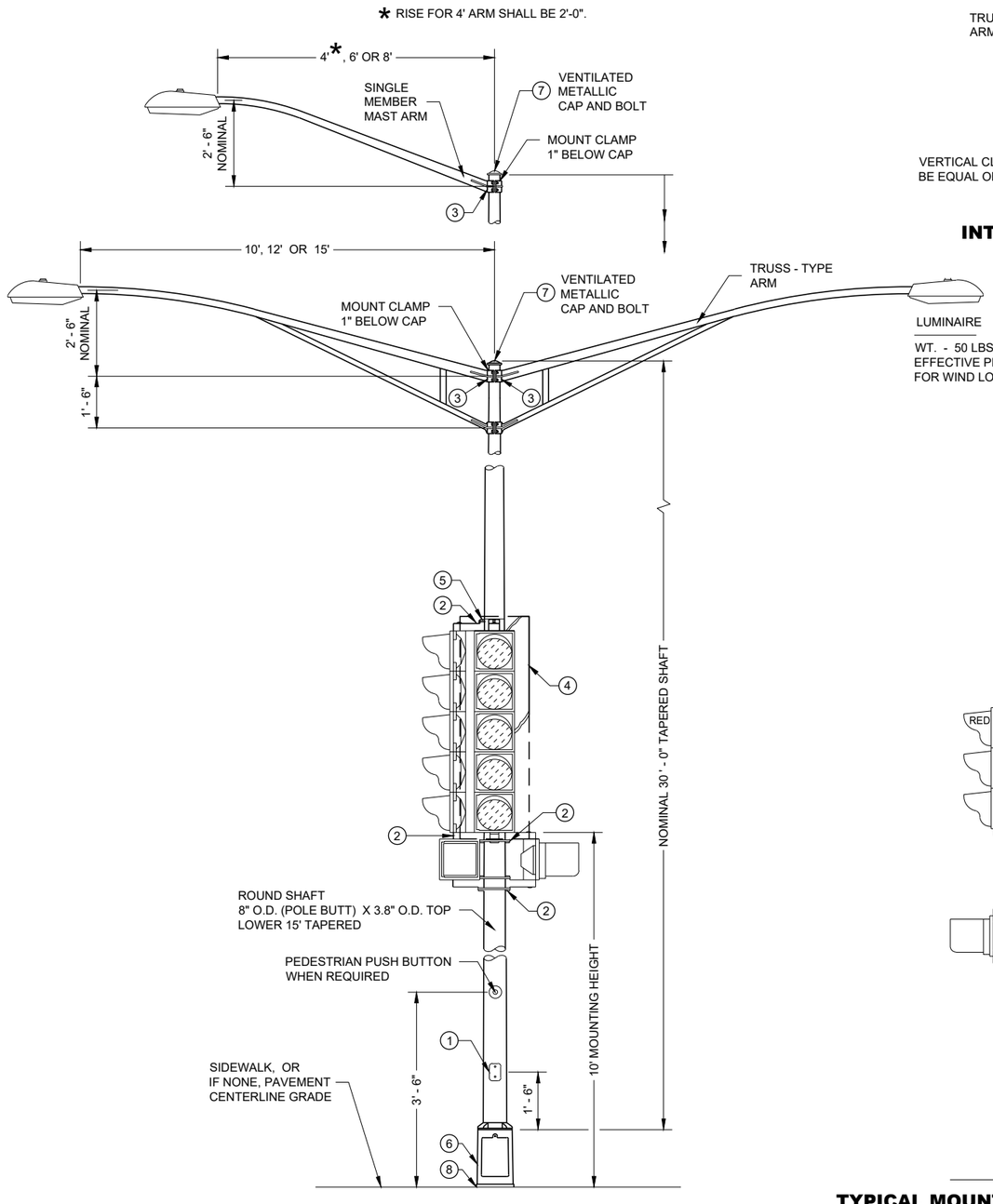
(11) USE SERRATED LOCK WASHERS WITH NOTCHES BETWEEN END TEE AND SIGNAL HEAD.

TYPE 3 POLE MOUNTING CONFIGURATION

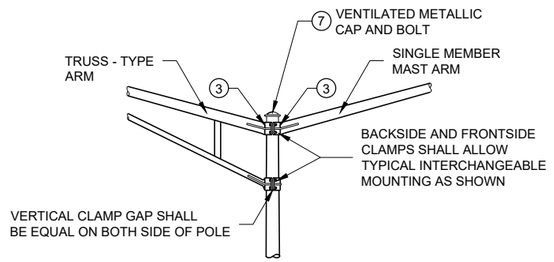
POLE MOUNTINGS FOR TRAFFIC SIGNALS AND LIGHTING UNITS TYPE 3 (HEAVY DUTY)

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(MAXIMUM LOAD)



INTERCHANGEABLE MOUNTING DETAIL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

ALL TYPE 4 POLE MOUNTINGS SHALL BE DESIGNED TO INCLUDE TWIN 15' ARMS WITH LUMINAIRES.

POLES SHALL BE GALVANIZED STEEL WITH A MINIMUM WALL THICKNESS OF U.S. STANDARD 11 GAGE (.1196").

SECTION 657, POLES, OF THE STANDARD SPECIFICATIONS SHALL APPLY TO THIS DRAWING.

A PULL WIRE / ROPE SHALL BE INSTALLED IN EACH TROMBONE ARM RACEWAY DURING THE MANUFACTURING PROCESS.

THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 2 ⅜ INCHES IN OUTSIDE DIAMETER. THE STRAIGHT PORTION OF THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 12 INCHES IN LENGTH.

WHEN TRANSFORMER BASES ARE USED, WIRE CONNECTIONS SHALL BE MADE IN THE TRANSFORMER BASE.

(1) 4" X 6" REINFORCED HANDHOLE AND COVER ASSEMBLY WITH TWO (2) ¼" X ¾" - 20 TPI , STAINLESS STEEL, HEX HEAD BOLTS.

(2) SIGNAL FACE MOUNTING BRACKETS. MOUNT WITH CAP SCREWS AND BANDING.

(3) GROMMETS. 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1 ⅜" HOLE IN POLE SHAFT FOR WIRING.

(4) SECURELY MOUNT DULL BLACK POLYCARBONATE BACKPLATES, PROJECTING 5" BEYOND ALL SIDES OF THE SIGNAL FACE HOUSING, PER MANUFACTURER'S RECOMMENDATIONS.

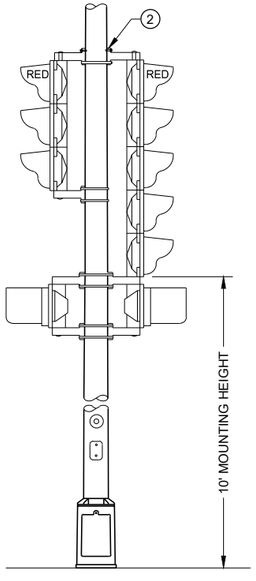
(5) POLE MOUNTED SIGNAL FACES SHALL REQUIRE ONE OR MORE MOUNTING SPACERS UNDER THE TOP MOUNTING BRACKET(S) AS REQUIRED, TO PLUMB THE SIGNAL FACE.

(6) CAST ALUMINUM TRANSFORMER BASE, WHEN REQUIRED.

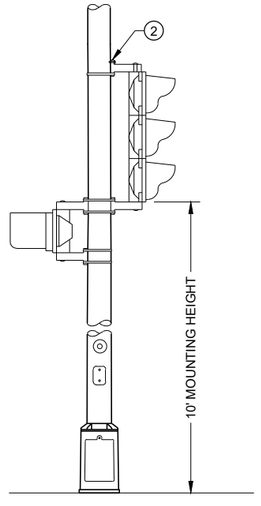
(7) FURNISH AND INSTALL VENTILATED, CAST METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.

(8) SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND POLE.

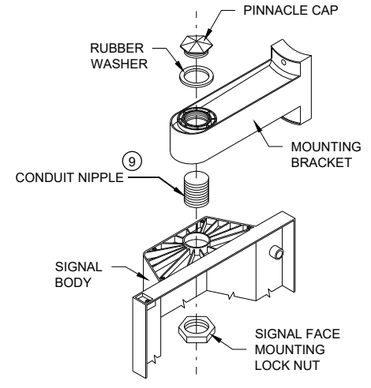
(9) USE 1 ½" ID NIPPLES ZINC-COATED RIGID METAL CONDUIT, LONG ENOUGH TO ACCOMMODATE FULL DEPTH THREADING INTO THE HEAD MOUNTING LOCK NUT IN ORDER TO TIGHTEN THE FACE, BUT THAT DO NOT INTERFERE WITH REFLECTOR CLOSURE. THREAD THE NIPPLE INTO THE MOUNTING BRACKET/ELBOW UNTIL TIGHT. USE APPROVED PINNACLE TYPE HARDWARE FROM A DEPARTMENT APPROVED MANUFACTURER TO CLOSE THE UNUSED 1 ½" OPENING IN SIGNAL FACES AND BRACKET ENDS.



TYPICAL MOUNTING OF BACK TO BACK 3 AND 5 SECTION SIGNAL FACES



TYPICAL MOUNTING OF 3 SECTION SIGNAL FACE



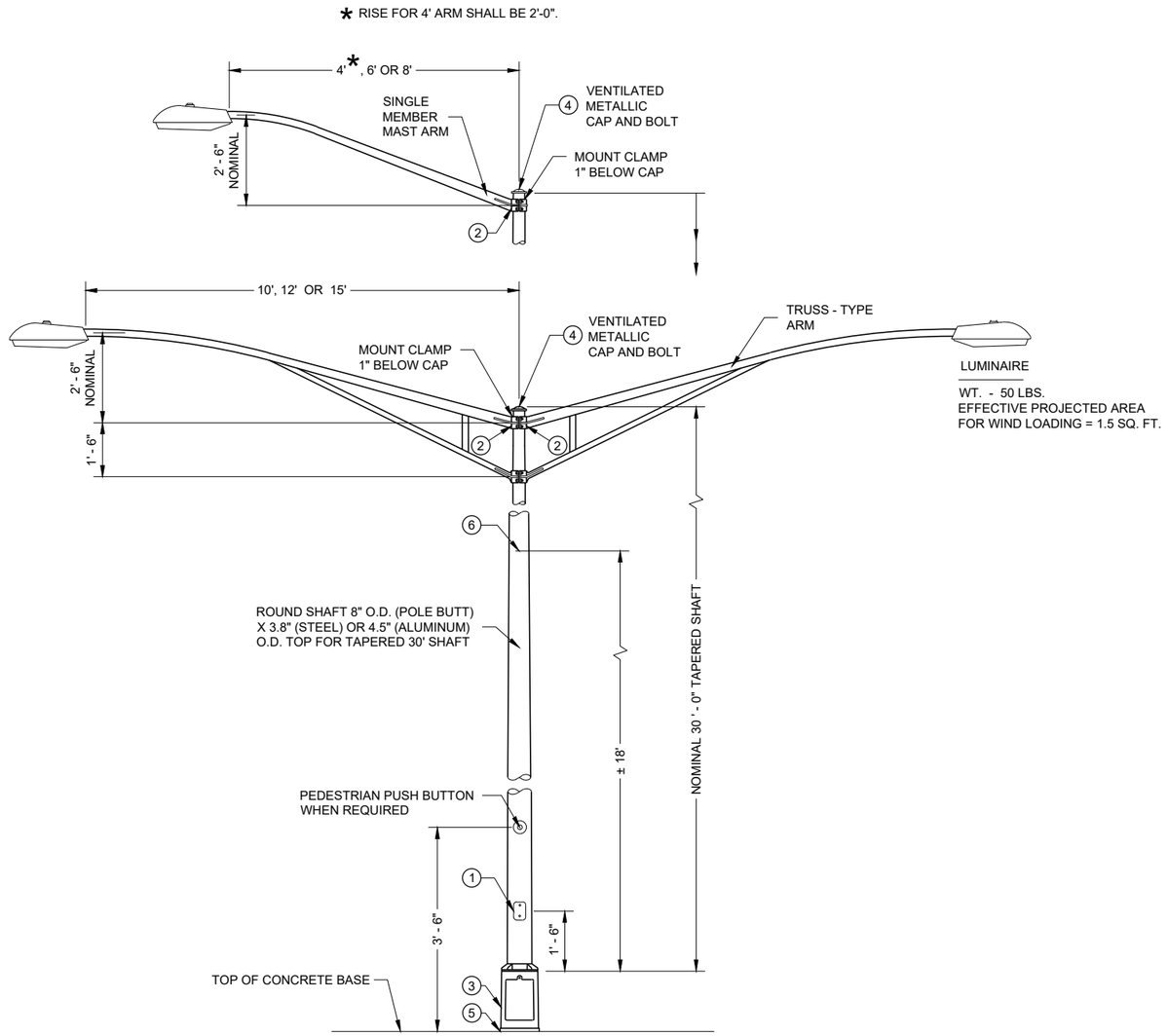
SIGNAL FACE MOUNTING DETAIL
(BANDED)

TYPE 4 POLE MOUNTING CONFIGURATION

POLE MOUNTINGS FOR TRAFFIC SIGNALS AND LIGHTING UNITS, TYPE 4

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TYPE 5 POLE MOUNTING CONFIGURATION
(MAXIMUM LOAD)
LIGHTING ONLY

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

SECTION 657, POLES, OF THE STANDARD SPECIFICATIONS SHALL APPLY TO THIS DRAWING.

ALL TYPE 5 POLE MOUNTINGS SHALL BE DESIGNED TO INCLUDE TWIN 15' ARMS WITH LUMINAIRES.

POLES SHALL BE GALVANIZED STEEL OR ALUMINUM, AS CALLED FOR IN THE CONTRACT.

TYPE 5 ALUMINUM POLES SHALL BE CONSTRUCTED OF 6063 - T6 ALUMINUM ALLOY. SLEEVING INSIDE THE POLE IS NOT ACCEPTABLE.

TYPE 5 ALUMINUM POLES SHALL HAVE A MINIMUM WALL THICKNESS OF 0.1888".

TYPE 5 STEEL POLES SHALL HAVE A MINIMUM WALL THICKNESS OF U.S. STANDARD 11 GAGE (0.1196").

THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 2 ⅜ INCHES IN OUTSIDE DIAMETER. THE STRAIGHT PORTION OF THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 12 INCHES IN LENGTH.

WHEN TRANSFORMER BASES ARE USED, WIRE CONNECTIONS SHALL BE MADE IN THE TRANSFORMER BASE.

(1) 4" X 6" REINFORCED HANDHOLE AND COVER ASSEMBLY WITH TWO (2) ¼" X ¾" - 20 TPI , STAINLESS STEEL, HEX HEAD BOLTS.

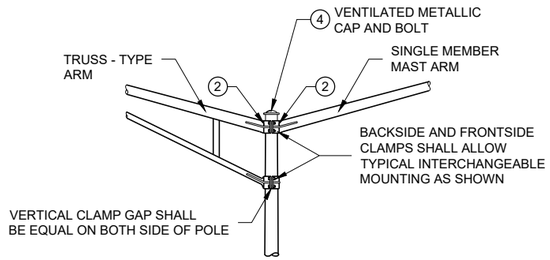
(2) GROMMETS. 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1 ⅜" HOLE IN POLE SHAFT FOR WIRING.

(3) CAST ALUMINUM TRANSFORMER BASE, WHEN REQUIRED.

(4) FURNISH AND INSTALL VENTILATED, CAST METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.

(5) SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND POLE.

(6) INTERNAL DUMBBELL - TYPE VIBRATION DAMPER.



INTERCHANGEABLE MOUNTING DETAIL

POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 5 (30 FEET)

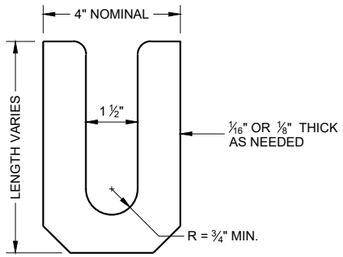
STATE OF WISCONSIN
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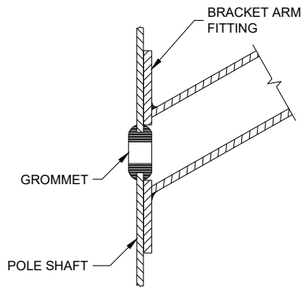
SDD 09E01 - 15d

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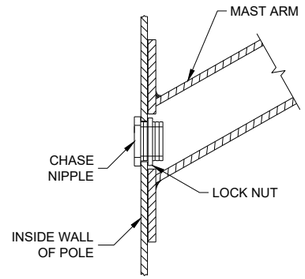
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LEVELING SHIM (1)
SHALL BE ALUMINUM



TYPICAL APPLICATION OF GROMMET IN POLE SHAFT



TYPICAL APPLICATION OF CHASE NIPPLE IN POLE SHAFT

GENERAL NOTES

CLAMP BOLT-NUT TIGHTENING TORQUE SHALL BE INDICATED BY INDENT STAMPING (1/2 INCH NUMERALS AND LETTERS) OR WEATHERPROOF PRINTING ON THE INSIDE OF THE CLAMP THAT IS WELDED TO THE ARM MEMBER.

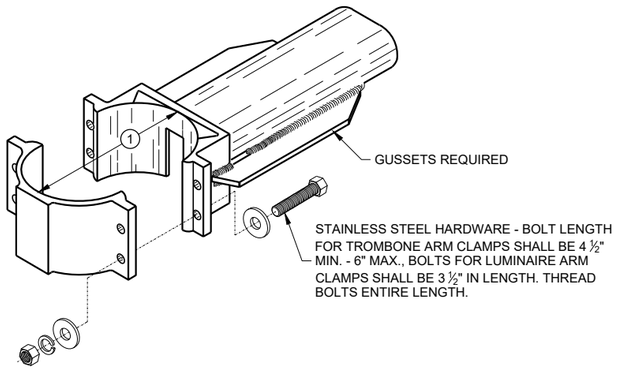
(1) 4.5" I.D. FOR LUMINAIRE MAST ARM CLAMP. 6.625" I.D. FOR TROMBONE MAST ARM CLAMP.

(2) INDIVIDUAL BASE PLATE ANCHOR ROD COVERS. (4 REQUIRED)

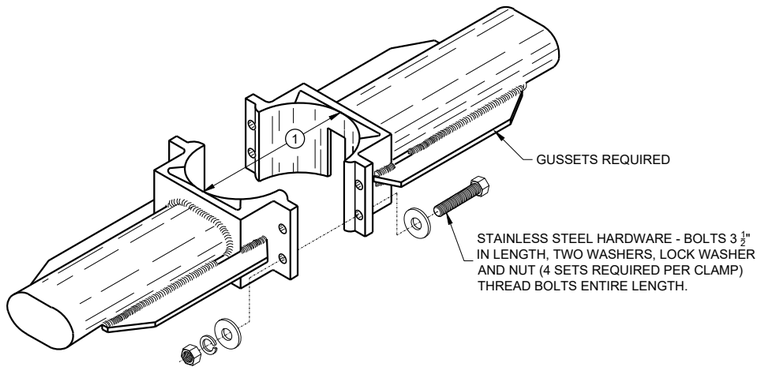
(3) BASE PLATE SLOTTED TO ACCEPT 11" THROUGH 12" BOLT CIRCLE USING 1" DIAMETER ANCHOR RODS.

(4) LEVELING SHIMS, DESIGNED FOR THE PURPOSE, SHALL BE USED WHEN PLUMBING POLES. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE. LEVELING SHIMS SHALL BE USED ONLY BETWEEN THE TOP OF THE CONCRETE BASE AND A METALLIC BASE PLATE.

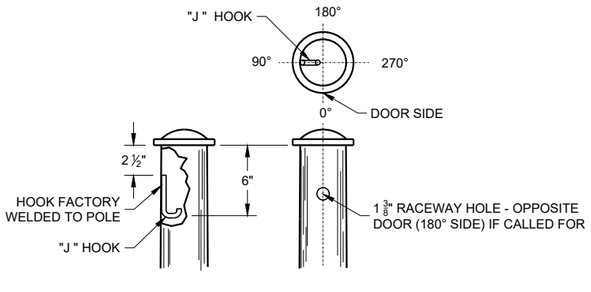
SHIMS SHALL BE LONG ENOUGH AND WIDE ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.



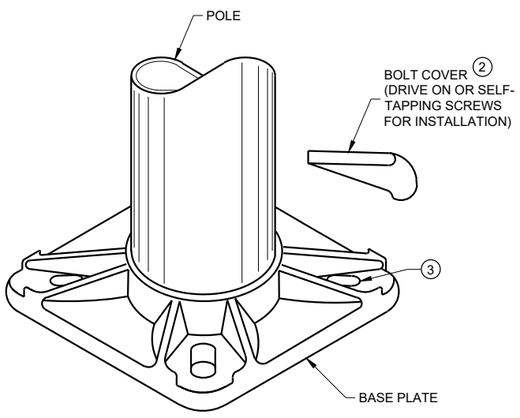
TYPICAL TROMBONE MAST ARM AND SINGLE LUMINAIRE MAST ARM MOUNTING CLAMP



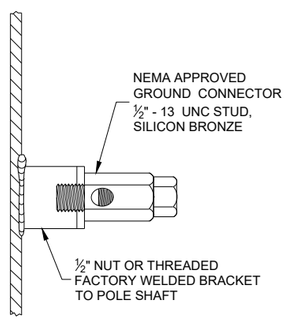
TYPICAL LUMINAIRE MAST ARM (DOUBLE) MOUNTING BRACKETS

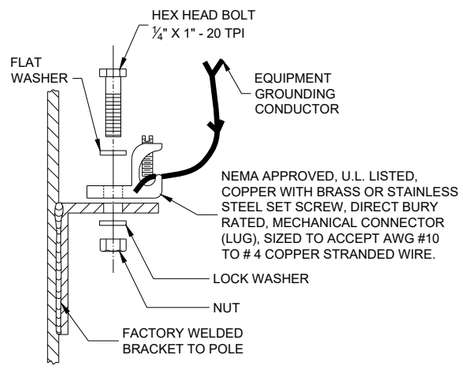


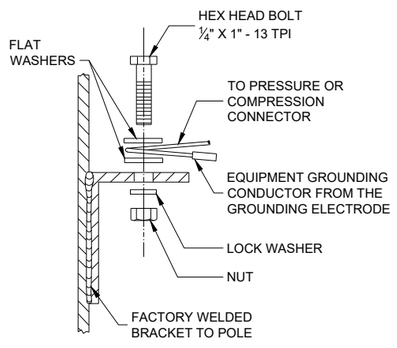
TYPICAL "J" HOOK LOCATION



BASE PLATE







TYPICAL GROUNDING CONNECTIONS
NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL

HARDWARE DETAILS FOR POLE MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGINEER

FHWA

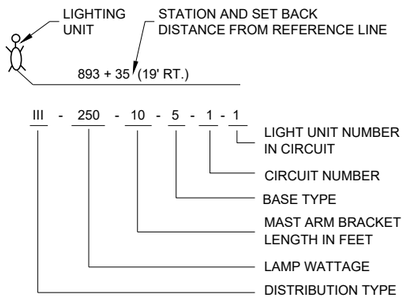
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GENERAL NOTES

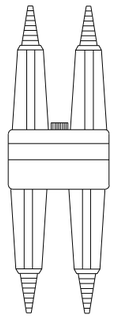
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

THE EQUIPMENT GROUND CONNECTOR SHALL BE TAPED WITH 3 WRAPS (MINIMUM) OF APPROVED RUBBER TAPE AND 3 WRAPS (MINIMUM) OF APPROVED VINYL TAPE TO COVER SHARP WIRE ENDS AFTER THE CONNECTION IS COMPLETED.

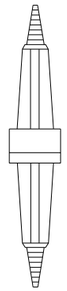
WHEN TRANSFORMER BASES ARE USED, ALL WIRING CONNECTIONS SHALL OCCUR WITHIN THE TRANSFORMER BASES.



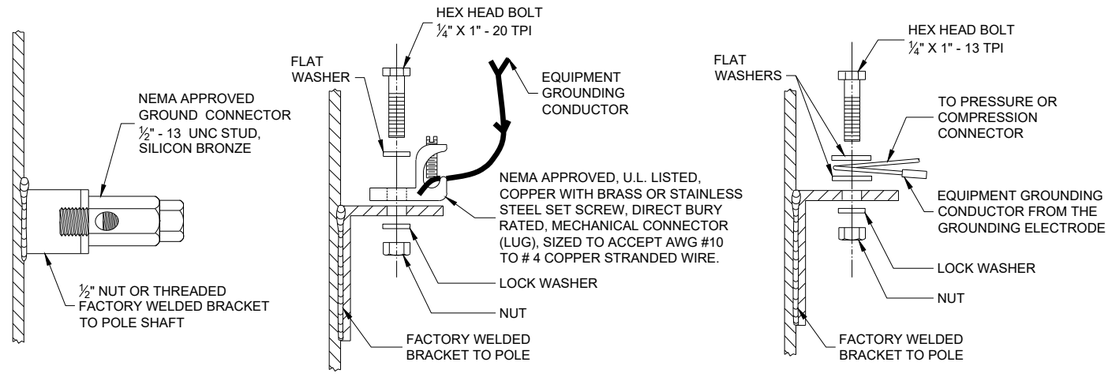
LIGHTING UNIT CODE
(TYPICAL)



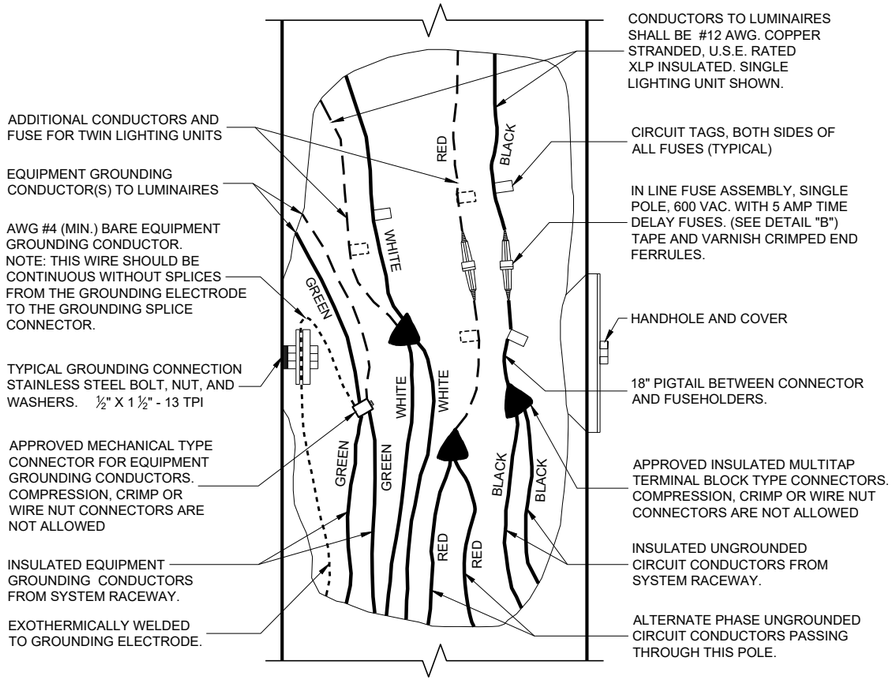
DETAIL "A"
BREAKAWAY DOUBLE POLE WITH WATERPROOF INSULATING BOOT



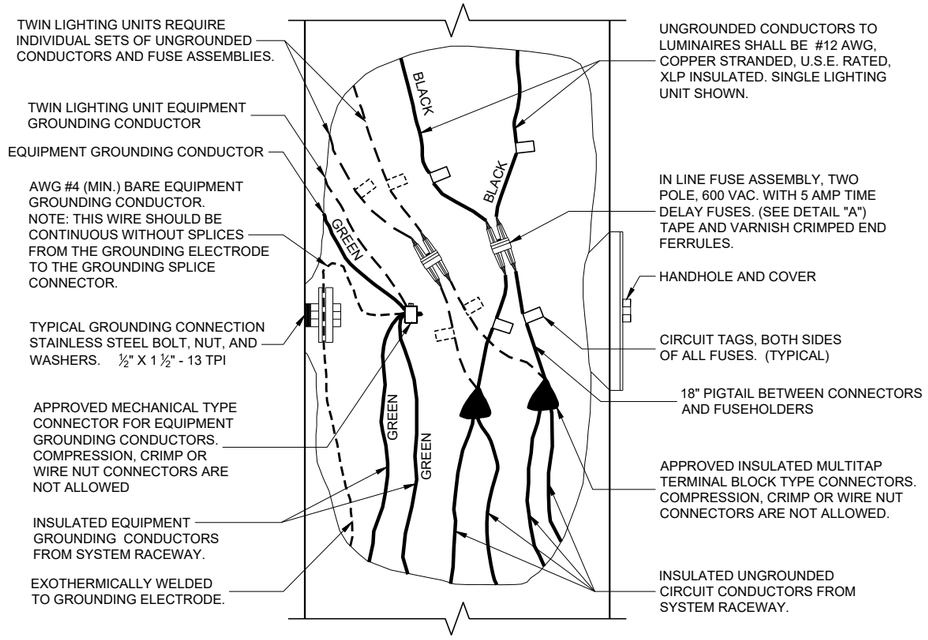
DETAIL "B"
BREAKAWAY SINGLE POLE WITH WATERPROOF INSULATING BOOT



TYPICAL GROUNDING CONNECTIONS
NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL



3 WIRE - 120, 240 OR 480 VAC (UNGROUNDED CONDUCTORS) WITH GROUNDING CONDUCTOR AND EQUIPMENT GROUNDING CONDUCTOR



2 WIRE - 240 OR 480 VAC (UNGROUNDED CONDUCTORS) WITH EQUIPMENT GROUNDING CONDUCTOR

NON - FREEWAY LIGHTING UNIT POLE WIRING

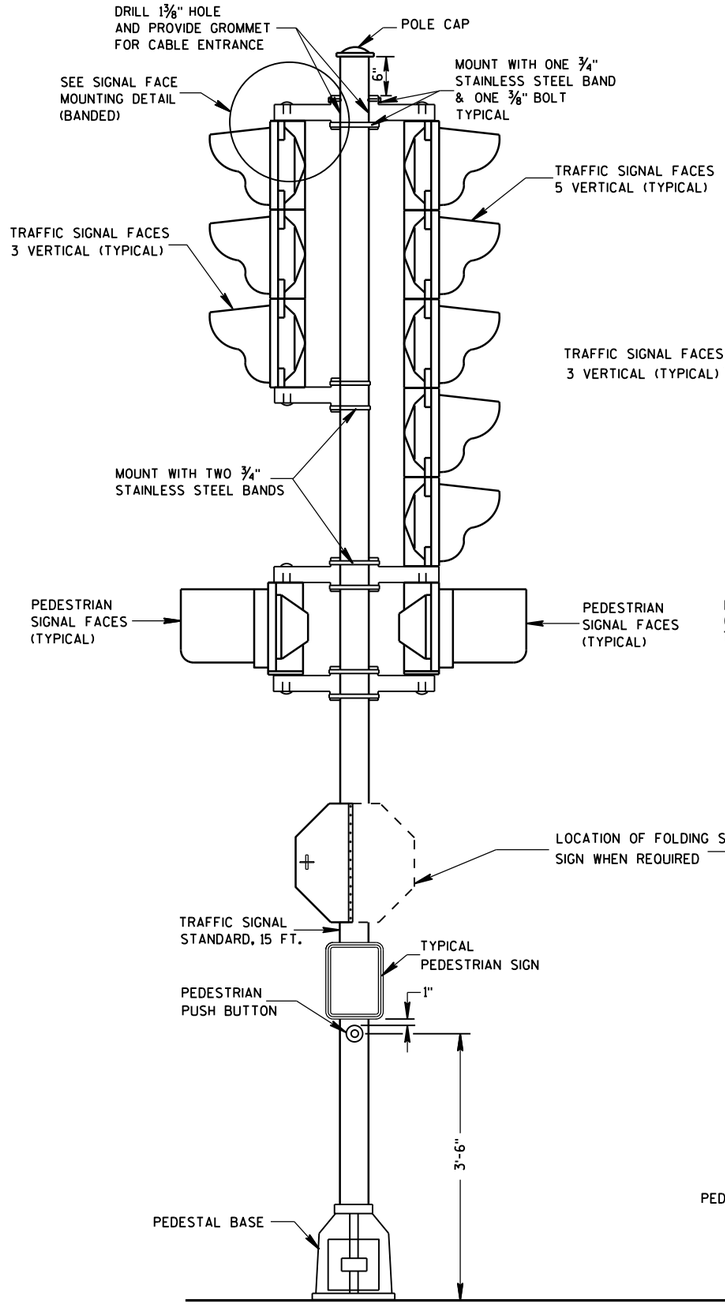
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

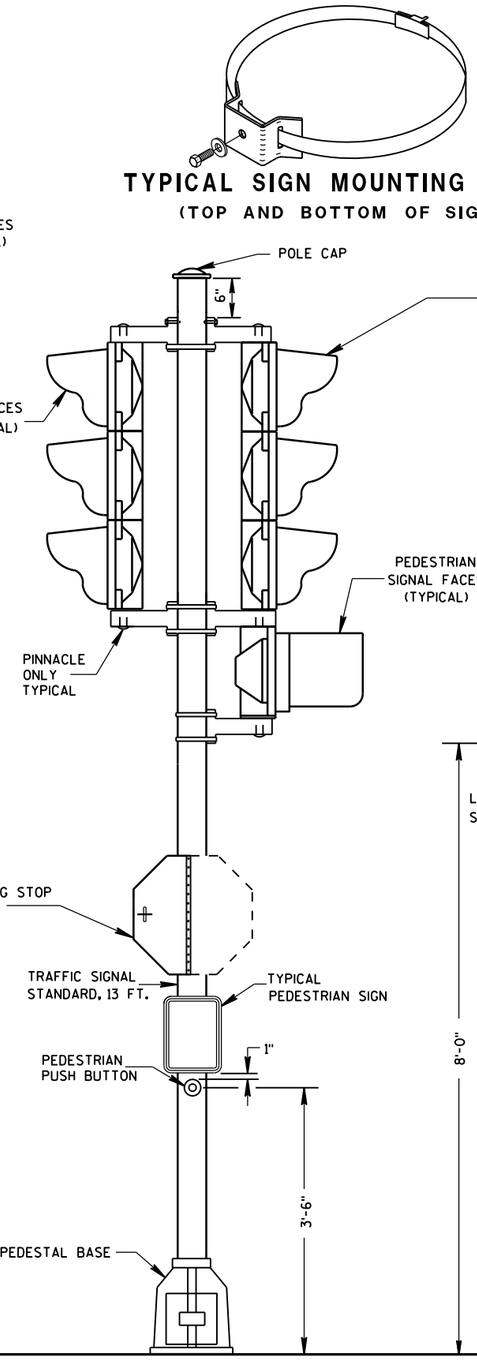
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGINEER

FHWA

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SDD 09E03 - 06

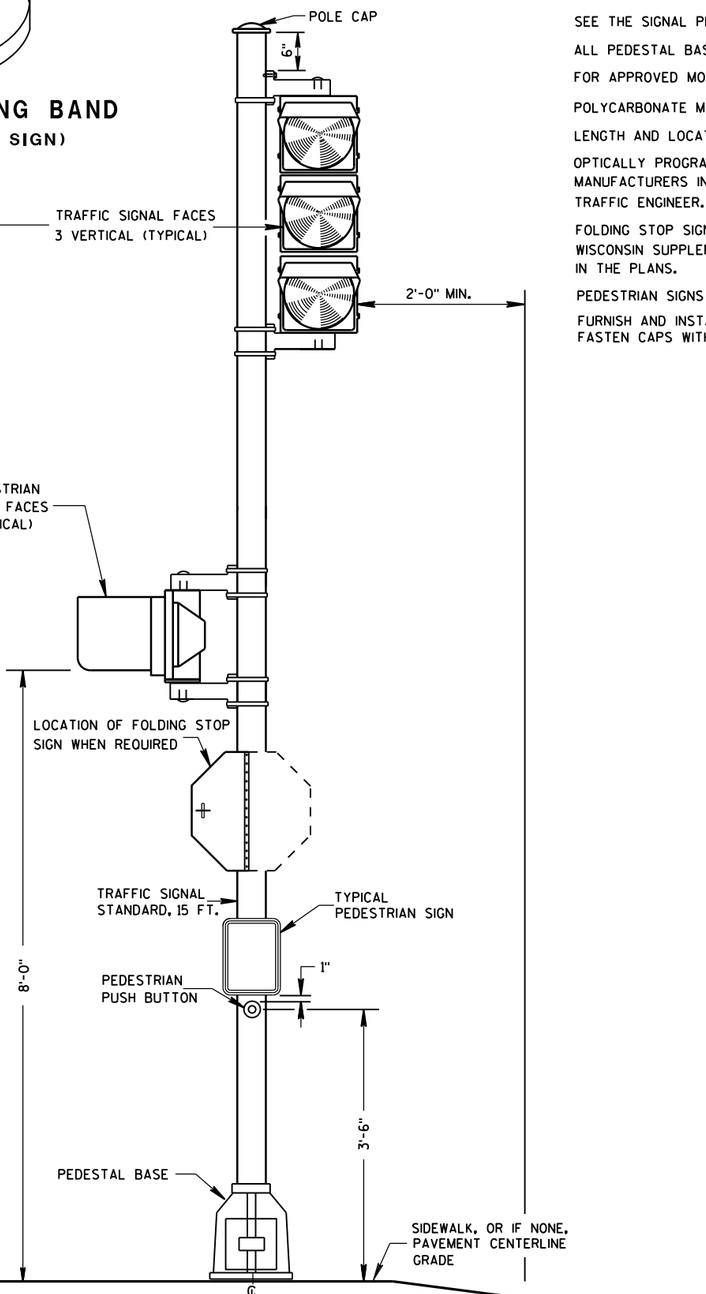


TRAFFIC SIGNAL STANDARD-15 FT.



TRAFFIC SIGNAL STANDARD-13 FT.

TYPICAL SIGN MOUNTING BAND
(TOP AND BOTTOM OF SIGN)



TRAFFIC SIGNAL STANDARD-15 FT.
3M MOUNTING (TYPICAL)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

SEE THE SIGNAL PLAN FOR REQUIRED SIGNAL FACE SIZES.

ALL PEDESTAL BASES SHALL BE MOUNTED ON CONCRETE BASE - TYPE 1.

FOR APPROVED MOUNTING HARDWARE, SEE THE CONTRACT SPECIAL PROVISIONS.

POLYCARBONATE MOUNTING BRACKETS SHALL BE USED.

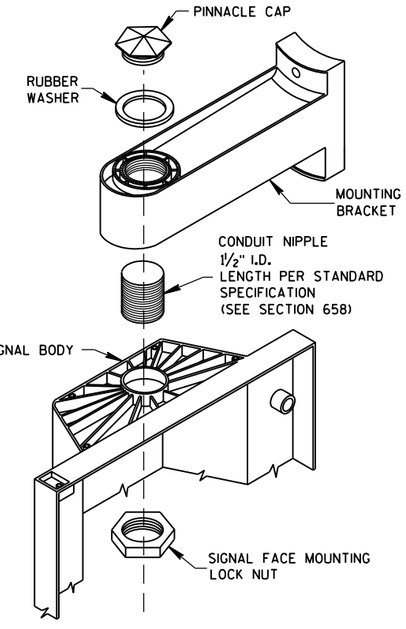
LENGTH AND LOCATION OF TRAFFIC SIGNAL STANDARDS SHALL BE AS SHOWN ON THE PLANS.

OPTICALLY PROGRAMMED SIGNAL FACES SHALL BE MASKED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS, AND UNDER THE DIRECTIONS OF THE REGION TRAFFIC ENGINEER.

FOLDING STOP SIGNS SHALL BE IN ACCORDANCE WITH THE MUTCD AND/OR THE LATEST WISCONSIN SUPPLEMENT. THE SIGNS SHALL BE SIZED AND LOCATED AS CALLED FOR IN IN THE PLANS.

PEDESTRIAN SIGNS SHALL BE AS DESIGNATED IN THE PLANS.

FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.



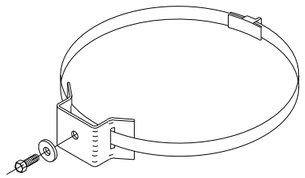
SIGNAL FACE MOUNTING DETAIL
(BANDED)

TRAFFIC SIGNAL STANDARD POLY BRACKET MOUNTINGS (TYPICAL) 13 FT. OR 15 FT.

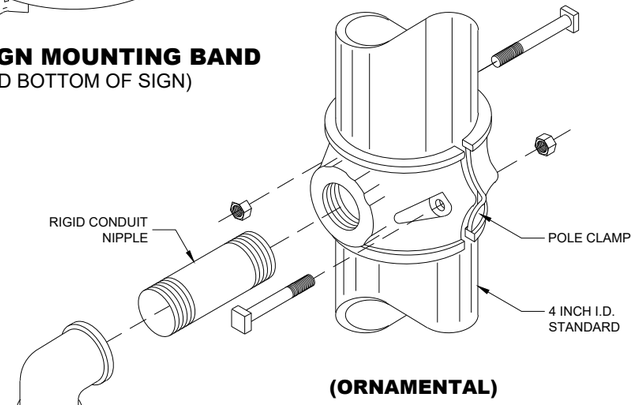
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
2/28/2013 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL ENGINEER
FHWA

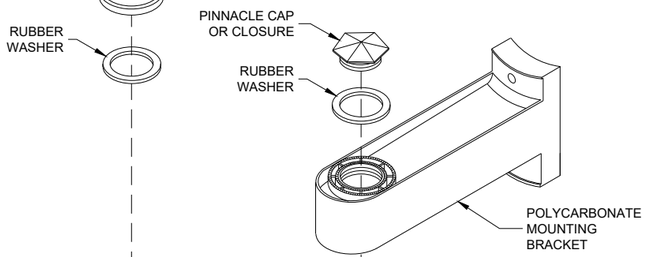
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S.D.D. 9 E 6-5



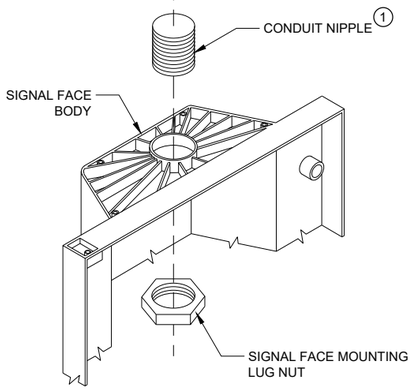
TYPICAL SIGN MOUNTING BAND
(TOP AND BOTTOM OF SIGN)



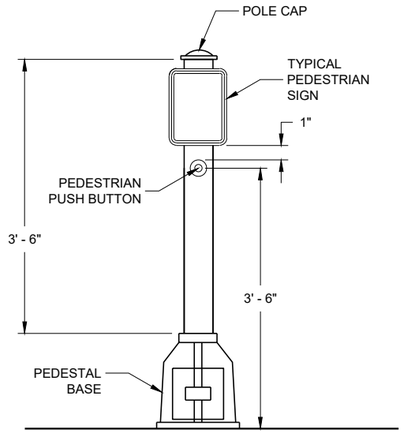
(ORNAMENTAL)



(BANDED)



SIGNAL FACE MOUNTING DETAILS



PEDESTRIAN PUSH BUTTON TYPICAL MOUNTING

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

SEE THE SIGNAL PLAN FOR REQUIRED SIGNAL FACE SIZES.

LOCATIONS SHALL BE AS SHOWN ON THE PLANS, UNLESS APPROVED BY THE ENGINEER IN THE FIELD.

ALL PEDESTAL BASES SHALL BE MOUNTED ON CONCRETE BASE - TYPE 1.

FOR APPROVED MOUNTING HARDWARE, SEE THE CONTRACT SPECIFICATIONS.

POLYCARBONATE SIGNAL FACE MOUNTING BRACKETS SHALL BE USED UNLESS ORNAMENTAL POLE CLAMPS ARE SPECIFIED.

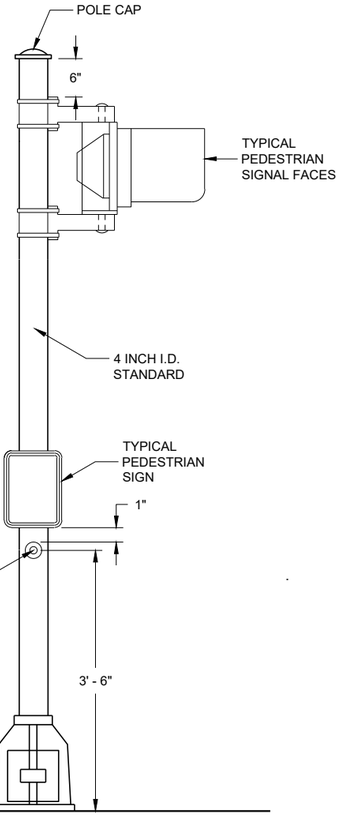
LENGTH OF TRAFFIC STANDARDS SHALL BE AS SHOWN ON THE PLANS.

MOUNTINGS AND BRACKETS SHALL BE AS SHOWN ON THE PLANS OR DESCRIBED IN THE SPECIAL PROVISIONS (BY THE REGION TRAFFIC ENGINEER).

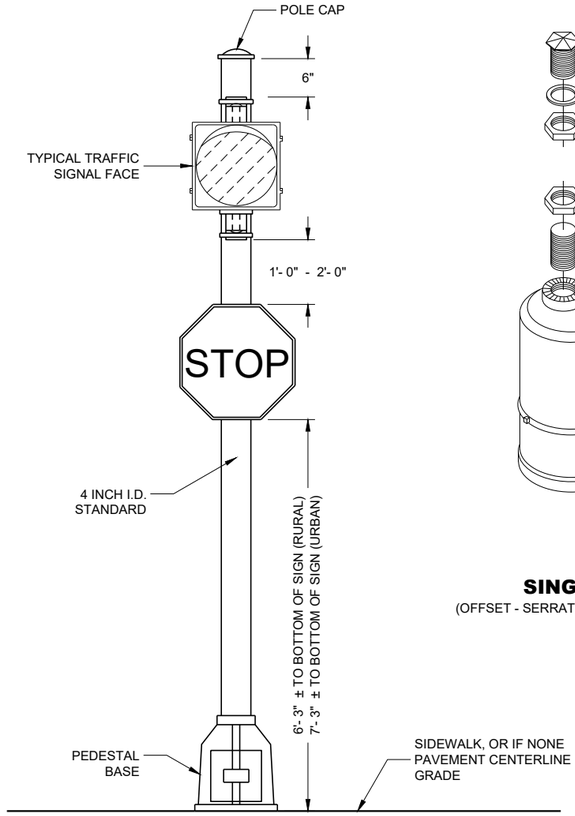
PEDESTRIAN SIGNS SHALL BE AS DESIGNATED IN THE PLANS.

FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.

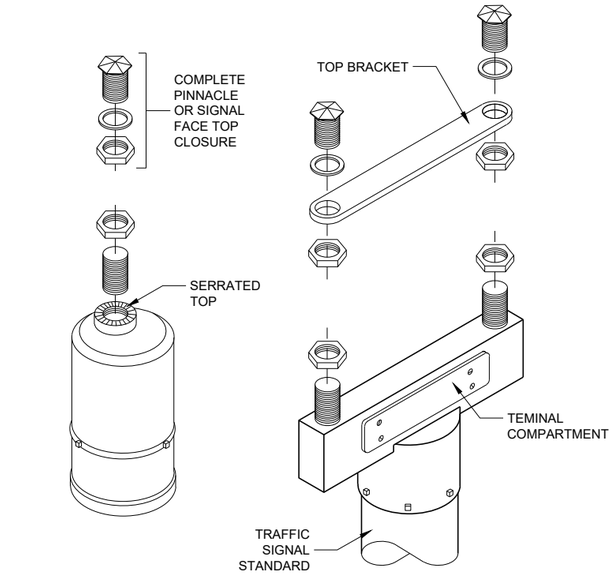
(1) USE 1 ½" ID NIPPLES ZINC-COATED RIGID METAL CONDUIT, LONG ENOUGH TO ACCOMMODATE FULL DEPTH THREADING INTO THE HEAD MOUNTING LOCK NUT IN ORDER TO TIGHTEN THE FACE, BUT THAT DO NOT INTERFERE WITH REFLECTOR CLOSURE. THREAD THE NIPPLE INTO THE MOUNTING BRACKET/ELBOW UNTIL TIGHT. USE APPROVED PINNACLE TYPE HARDWARE FROM A DEPARTMENT APPROVED MANUFACTURER TO CLOSE THE UNUSED 1 ½" OPENING IN SIGNAL FACESAND BRACKET ENDS.



PEDESTRIAN FACE STANDARD - 10 FT.
(WALK - DON'T WALK)



STANDARD FLASHER
10 FOOT, 13 FOOT OR 15 FOOT AS REQUIRED



SINGLE
(OFFSET - SERRATED MOUNTING)

DOUBLE
(SERRATED MOUNTING)

SLIPFITTERS

TRAFFIC SIGNAL STANDARD
PEDESTRIAN AND FLASHER
TYPICAL MOUNTING DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

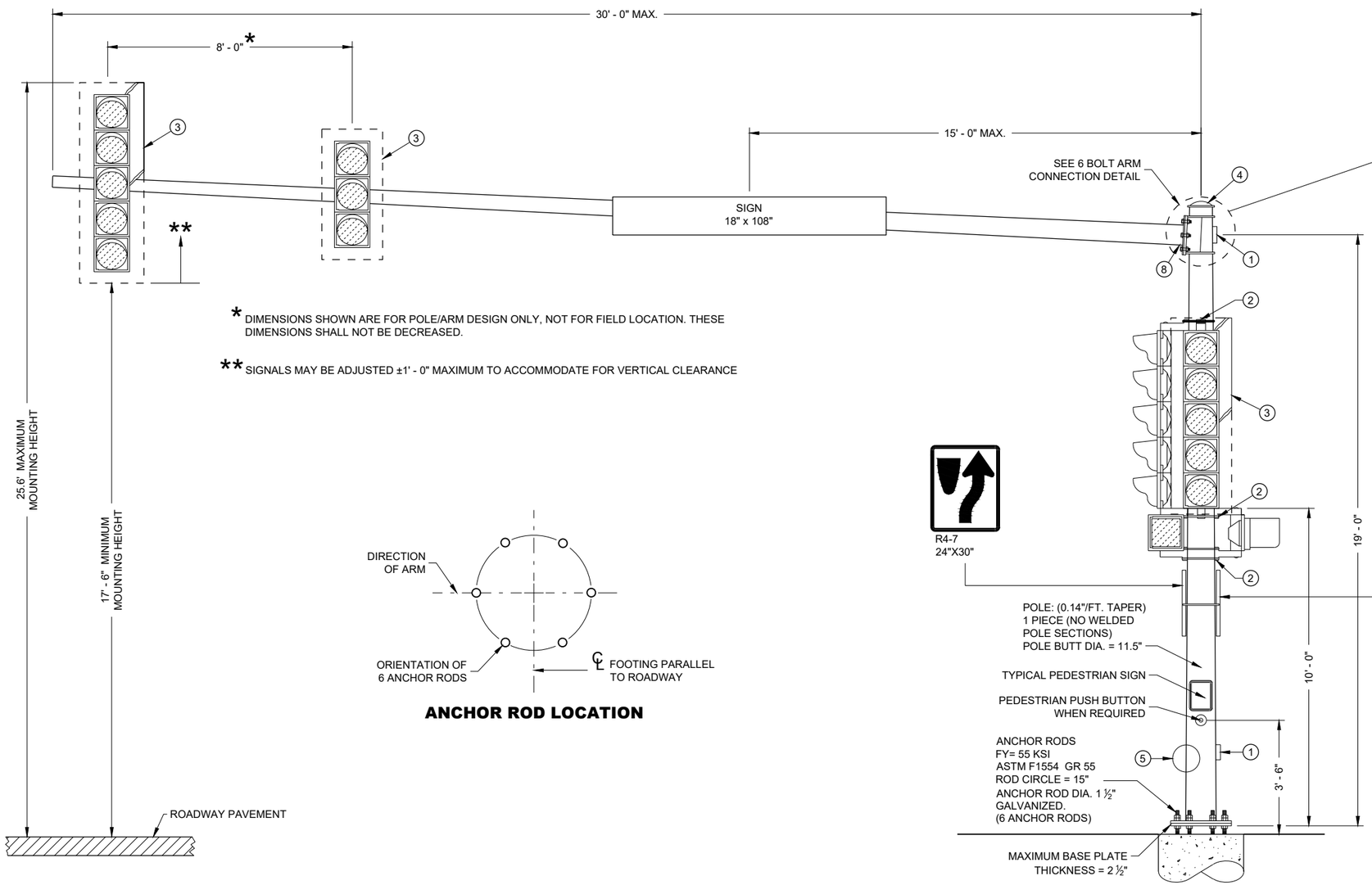
APPROVED
November 2018
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGINEER

FHWA

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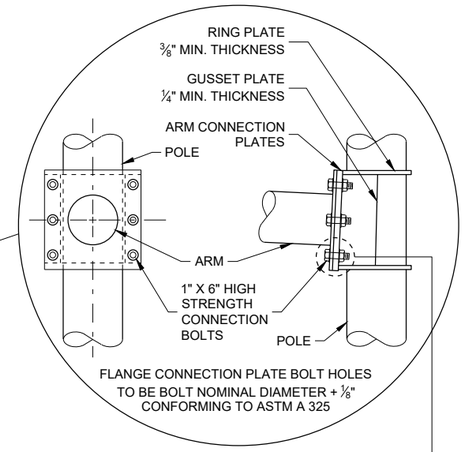
SDD 09E07 - 06



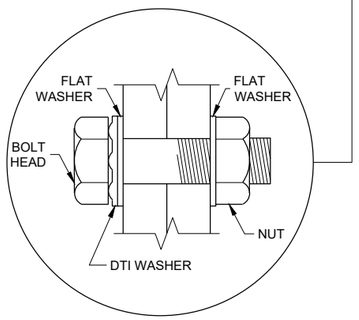
* DIMENSIONS SHOWN ARE FOR POLE/ARM DESIGN ONLY, NOT FOR FIELD LOCATION. THESE DIMENSIONS SHALL NOT BE DECREASED.

** SIGNALS MAY BE ADJUSTED ±1' - 0" MAXIMUM TO ACCOMMODATE FOR VERTICAL CLEARANCE

ANCHOR ROD LOCATION



6 BOLT ARM CONNECTION DETAIL



RECOMMENDED BOLT ASSEMBLY DETAIL

TYPE 9 POLE
15' - 30' MONOTUBE ARM
(MAXIMUM LOAD)

TYPE 9 POLE
15' - 30' MONOTUBE ARM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

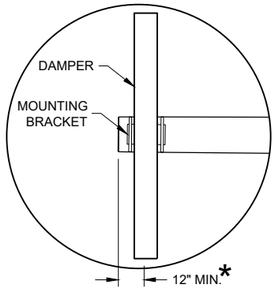
APPROVED
August 2020
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGINEER

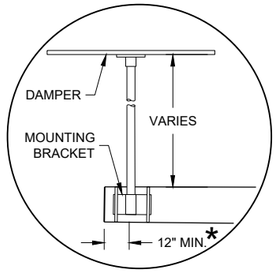
FHWA

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SDD 09E08 - 09a

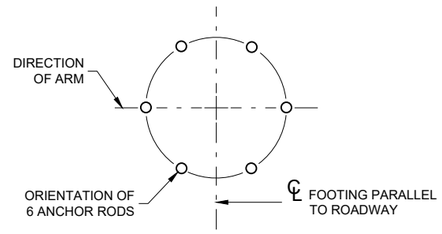


DUMBBELL VIBRATION DAMPER

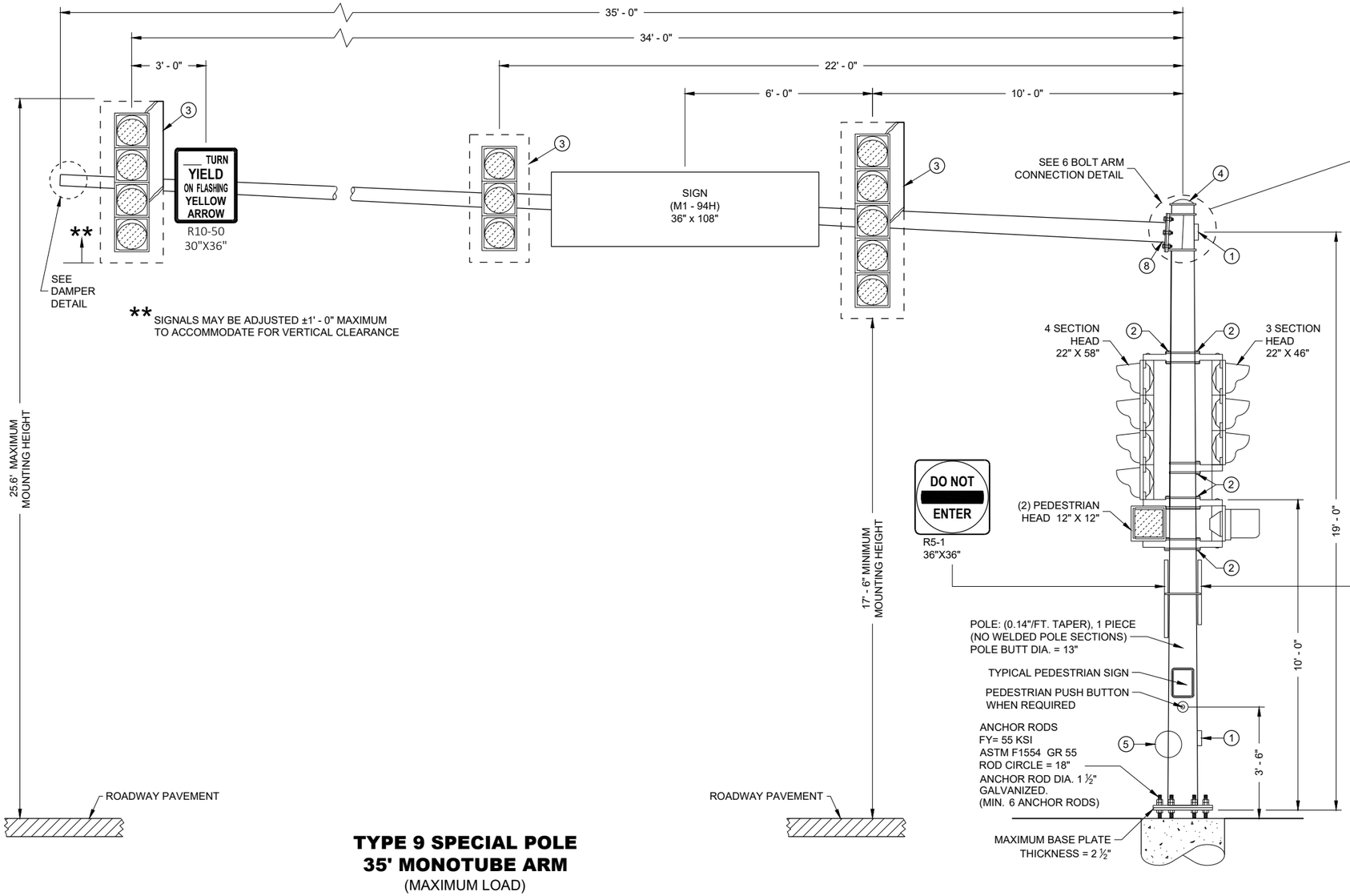


FLAT VIBRATION DAMPER

* MOUNT AS CLOSE TO END OF MAST ARM FOR MAXIMUM DAMPING PER MANUFACTURER'S RECOMMENDATIONS.

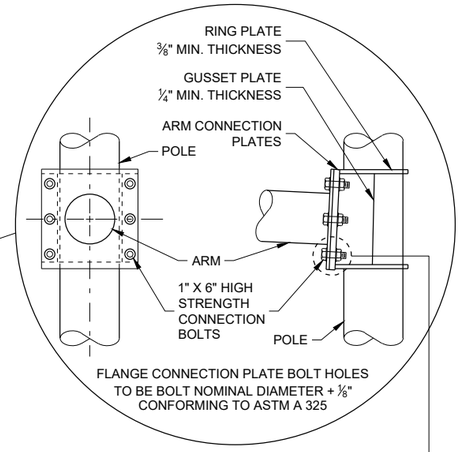


ANCHOR ROD LOCATION

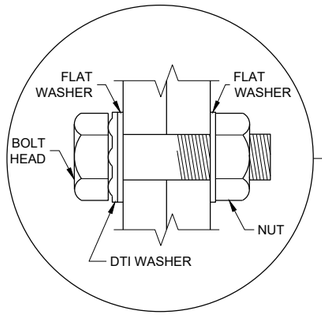


** SIGNALS MAY BE ADJUSTED ±1' - 0" MAXIMUM TO ACCOMMODATE FOR VERTICAL CLEARANCE

TYPE 9 SPECIAL POLE
35' MONOTUBE ARM
(MAXIMUM LOAD)



6 BOLT ARM CONNECTION DETAIL



RECOMMENDED BOLT ASSEMBLY DETAIL

TYPE 9 SPECIAL POLE
35' MONOTUBE ARM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

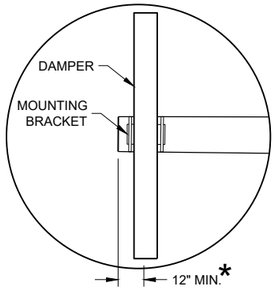
APPROVED
August 2020
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGINEER

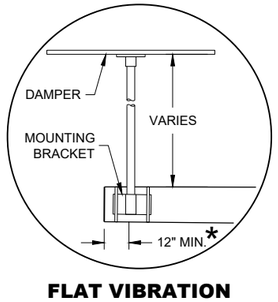
FHWA

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SDD 09E08 - 09b

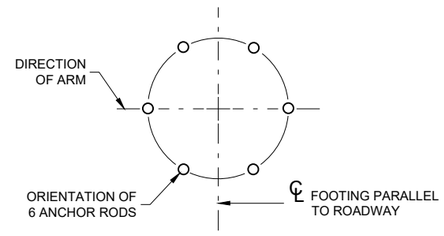


DUMBBELL VIBRATION DAMPER

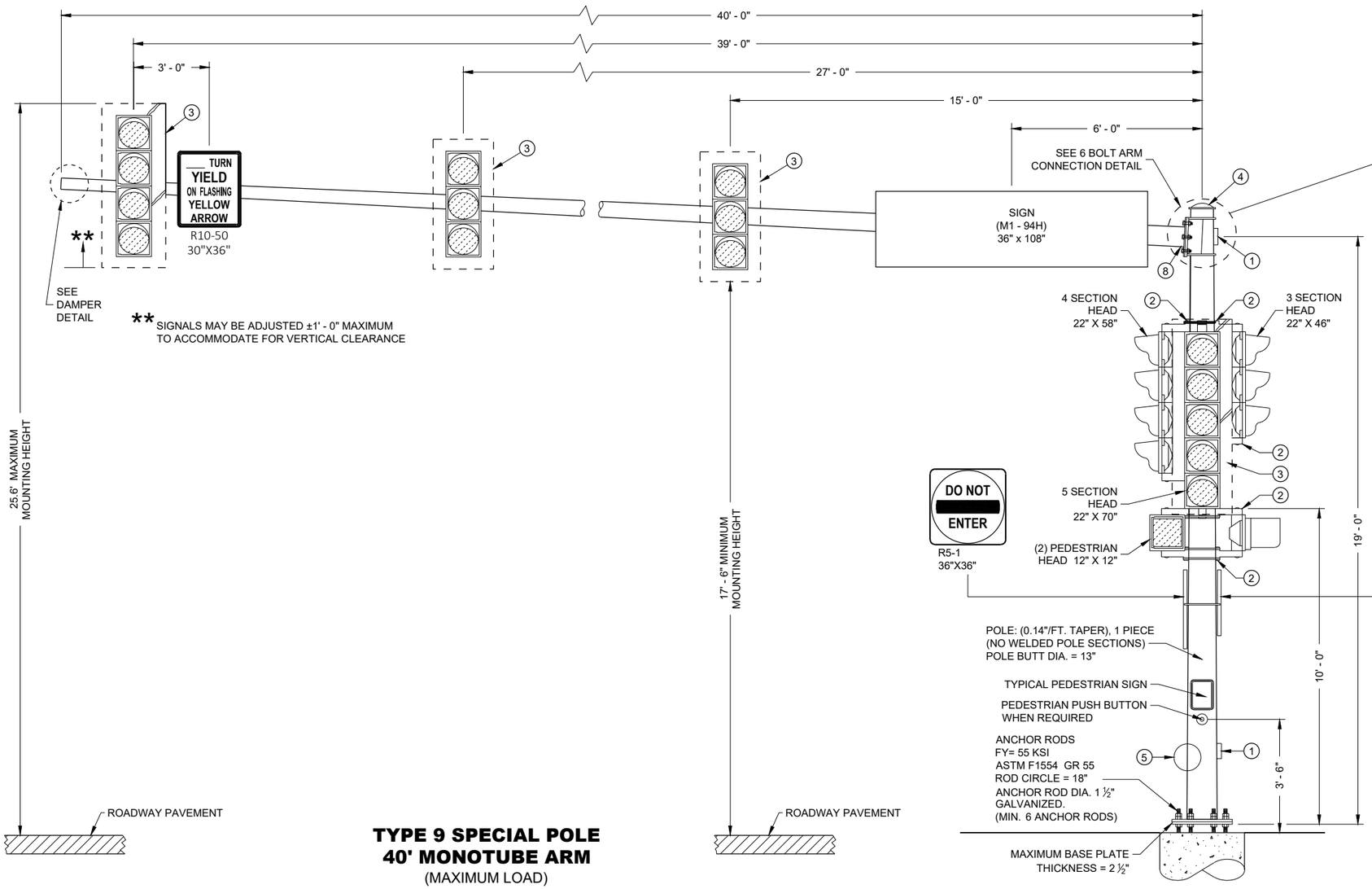


FLAT VIBRATION DAMPER

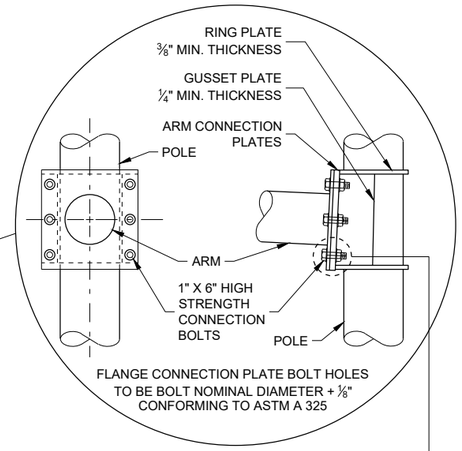
* MOUNT AS CLOSE TO END OF MAST ARM FOR MAXIMUM DAMPING PER MANUFACTURER'S RECOMMENDATIONS.



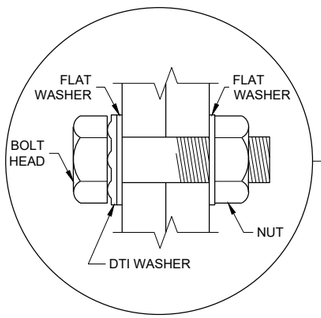
ANCHOR ROD LOCATION



TYPE 9 SPECIAL POLE 40' MONOTUBE ARM
(MAXIMUM LOAD)



6 BOLT ARM CONNECTION DETAIL



RECOMMENDED BOLT ASSEMBLY DETAIL

TYPE 9 SPECIAL POLE 40' MONOTUBE ARM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGINEER

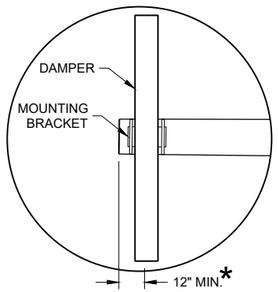
FHWA

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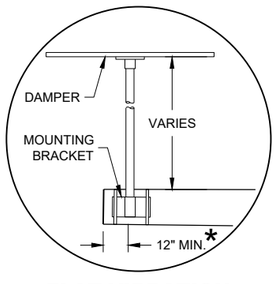
SDD 09E08 - 09c

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SDD 09E08 - 09c

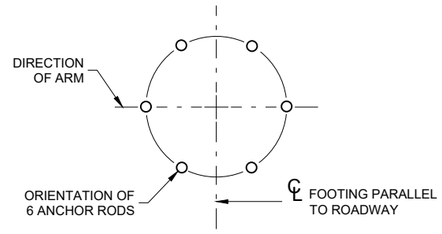


DUMBBELL VIBRATION DAMPER

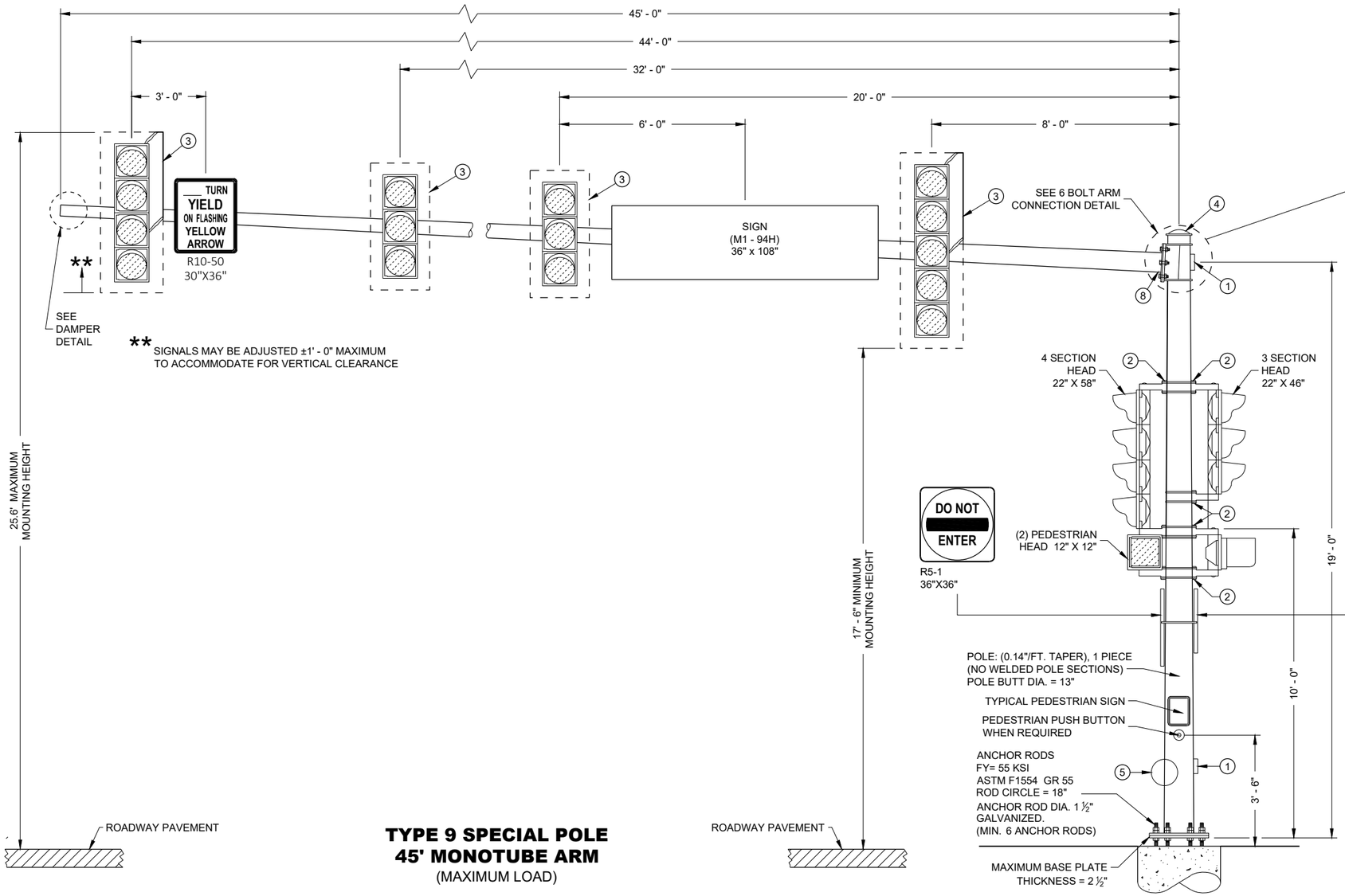


FLAT VIBRATION DAMPER

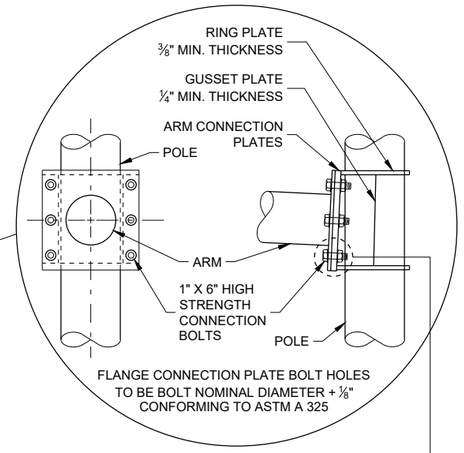
* MOUNT AS CLOSE TO END OF MAST ARM FOR MAXIMUM DAMPING PER MANUFACTURER'S RECOMMENDATIONS.



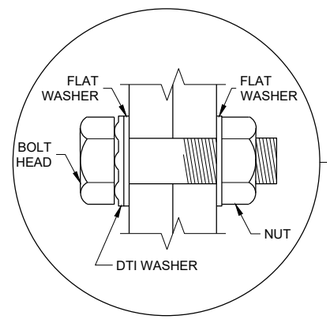
ANCHOR ROD LOCATION



TYPE 9 SPECIAL POLE 45' MONOTUBE ARM
(MAXIMUM LOAD)



6 BOLT ARM CONNECTION DETAIL



RECOMMENDED BOLT ASSEMBLY DETAIL

TYPE 9 SPECIAL POLE 45' MONOTUBE ARM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGINEER

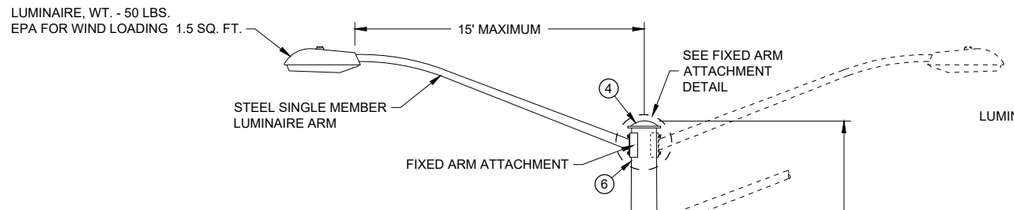
FHWA

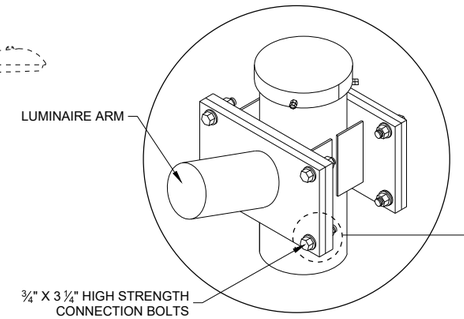
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SDD 09E08 - 09d

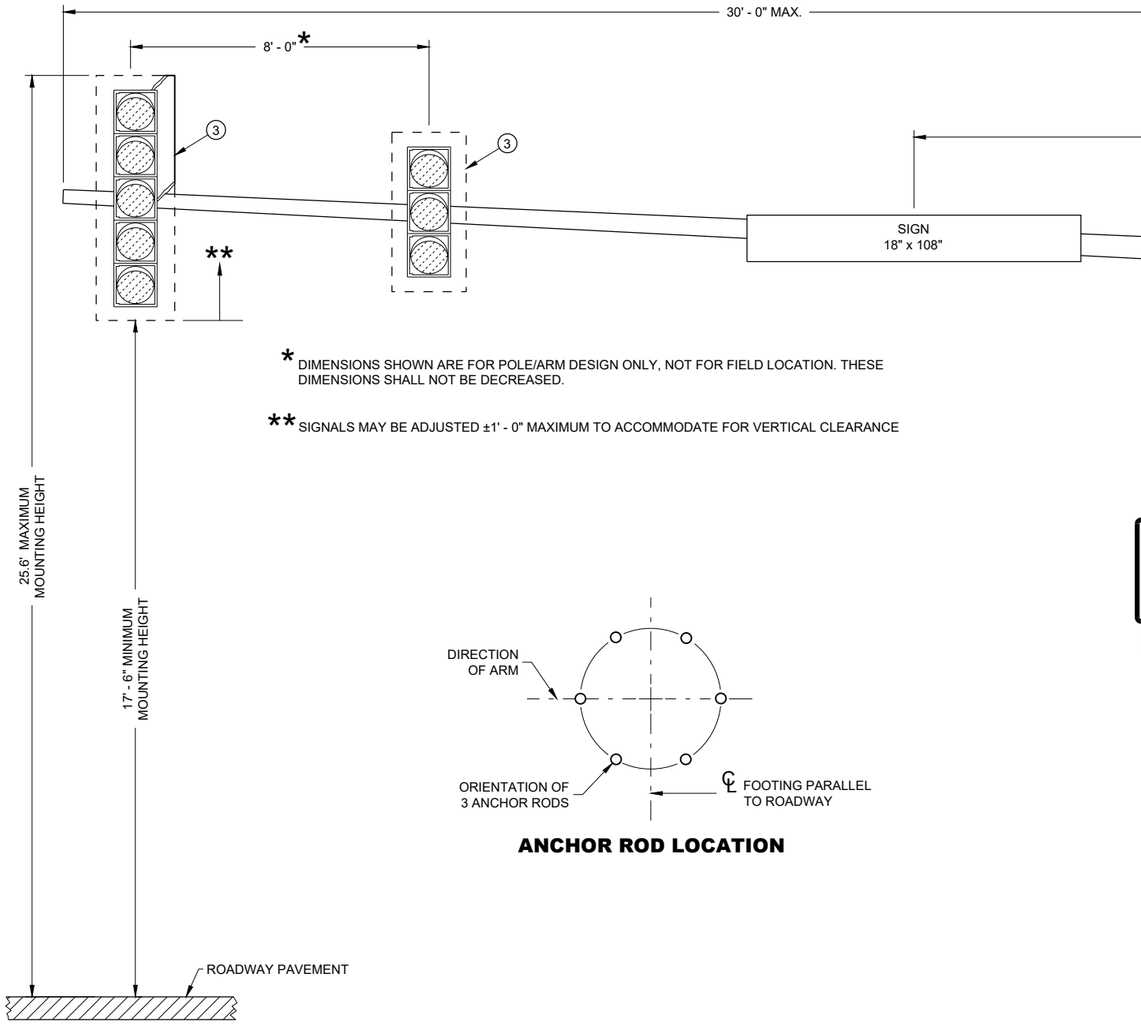
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SDD 09E08 - 09d





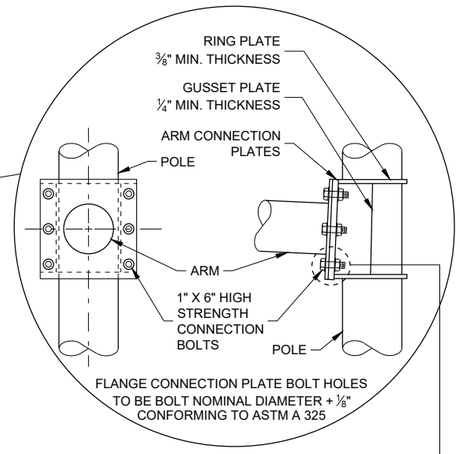
FIXED ARM ATTACHMENT DETAIL



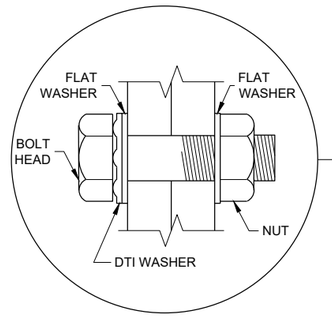
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** SIGNALS MAY BE ADJUSTED ±1' - 0" MAXIMUM TO ACCOMMODATE FOR VERTICAL CLEARANCE

ANCHOR ROD LOCATION



6 BOLT ARM CONNECTION DETAIL



RECOMMENDED BOLT ASSEMBLY DETAIL

TYPE 10 POLE
15' - 30' MONOTUBE ARM
(MAXIMUM LOAD)

TYPE 10 POLE
15' - 30' MONOTUBE ARM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

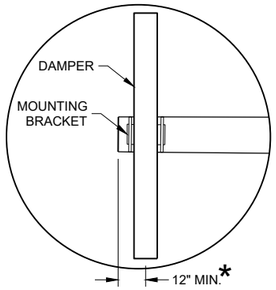
APPROVED
August 2020
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGINEER

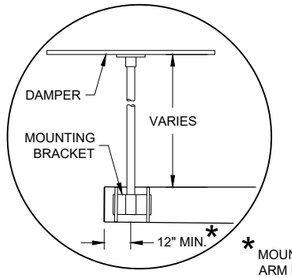
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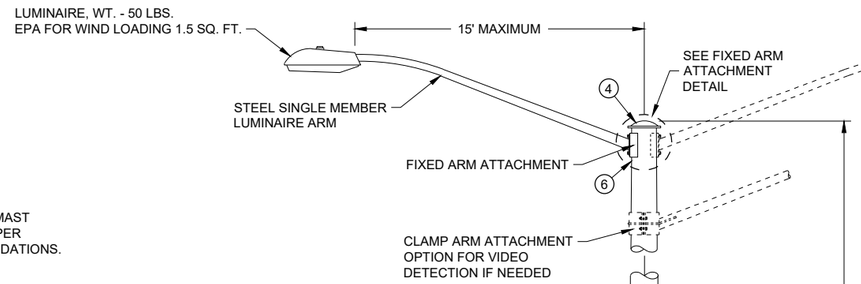


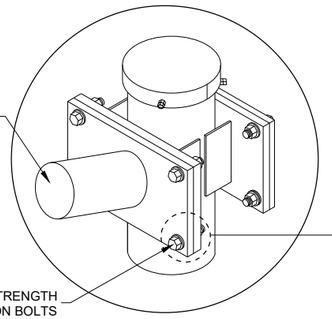
DUMBBELL VIBRATION DAMPER



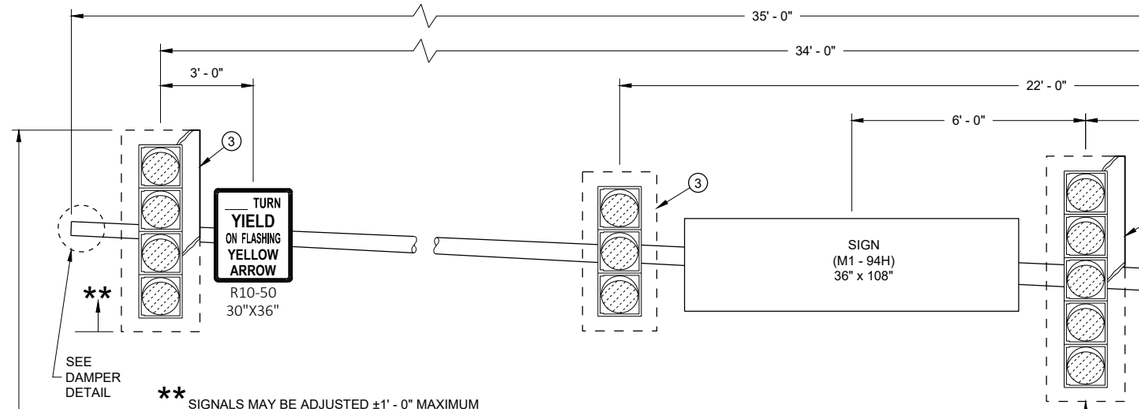
FLAT VIBRATION DAMPER

* MOUNT AS CLOSE TO END OF MAST ARM FOR MAXIMUM DAMPING PER MANUFACTURER'S RECOMMENDATIONS.

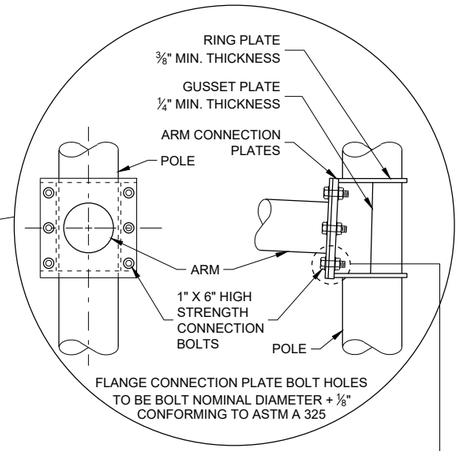




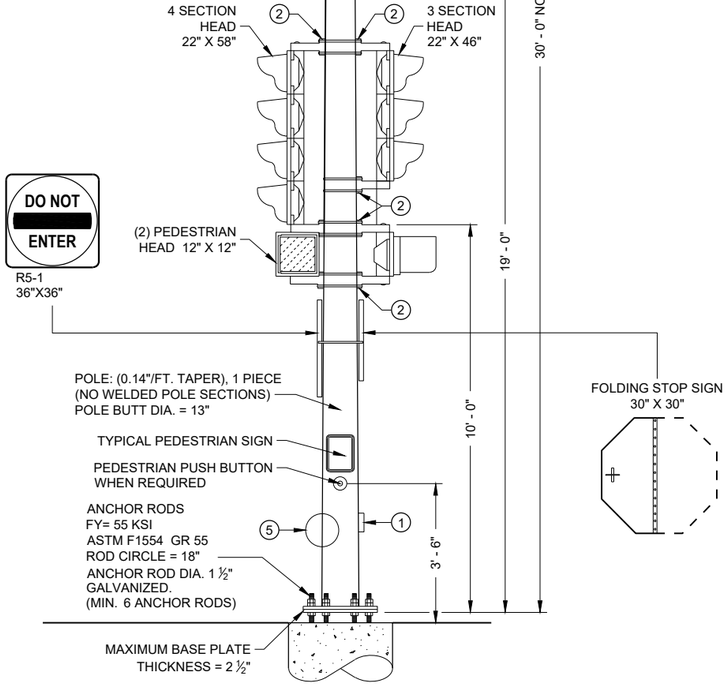
FIXED ARM ATTACHMENT DETAIL

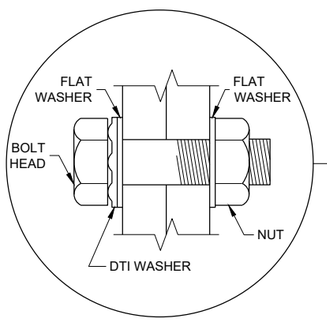


** SIGNALS MAY BE ADJUSTED ±1' - 0" MAXIMUM TO ACCOMMODATE FOR VERTICAL CLEARANCE

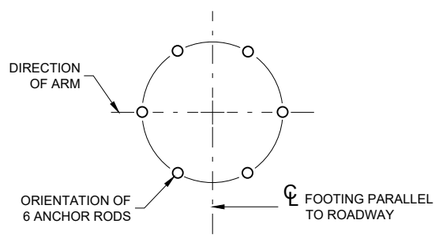


6 BOLT ARM CONNECTION DETAIL

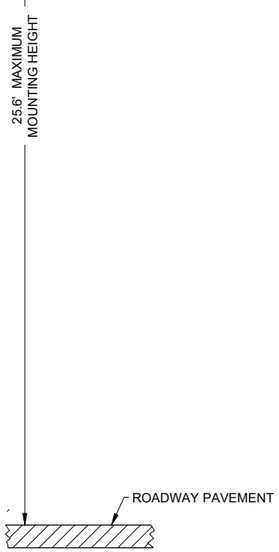


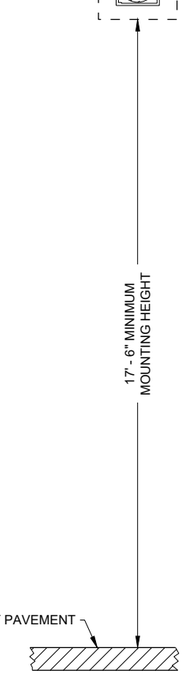


RECOMMENDED BOLT ASSEMBLY DETAIL



ANCHOR ROD LOCATION





TYPE 10 SPECIAL POLE
35' MONOTUBE ARM
(MAXIMUM LOAD)

TYPE 10 SPECIAL POLE
35' MONOTUBE ARM

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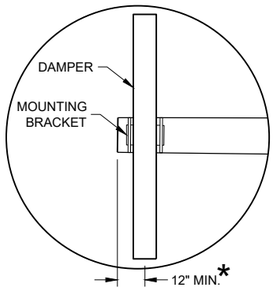
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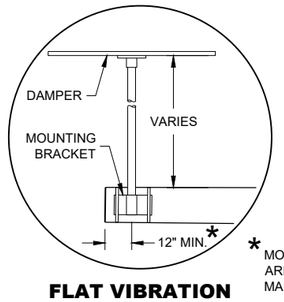
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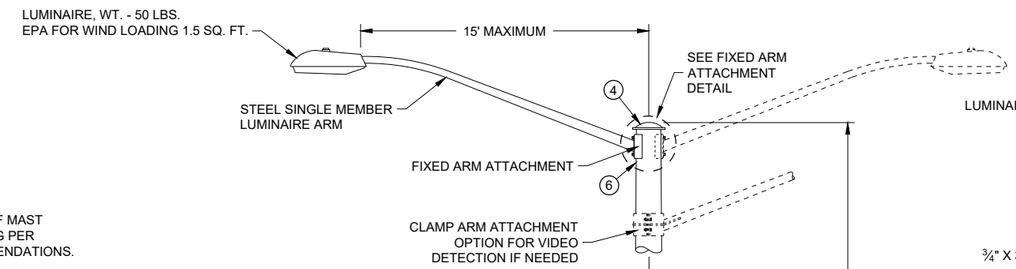


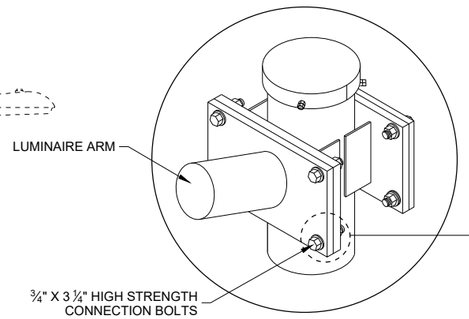
DUMBBELL VIBRATION DAMPER



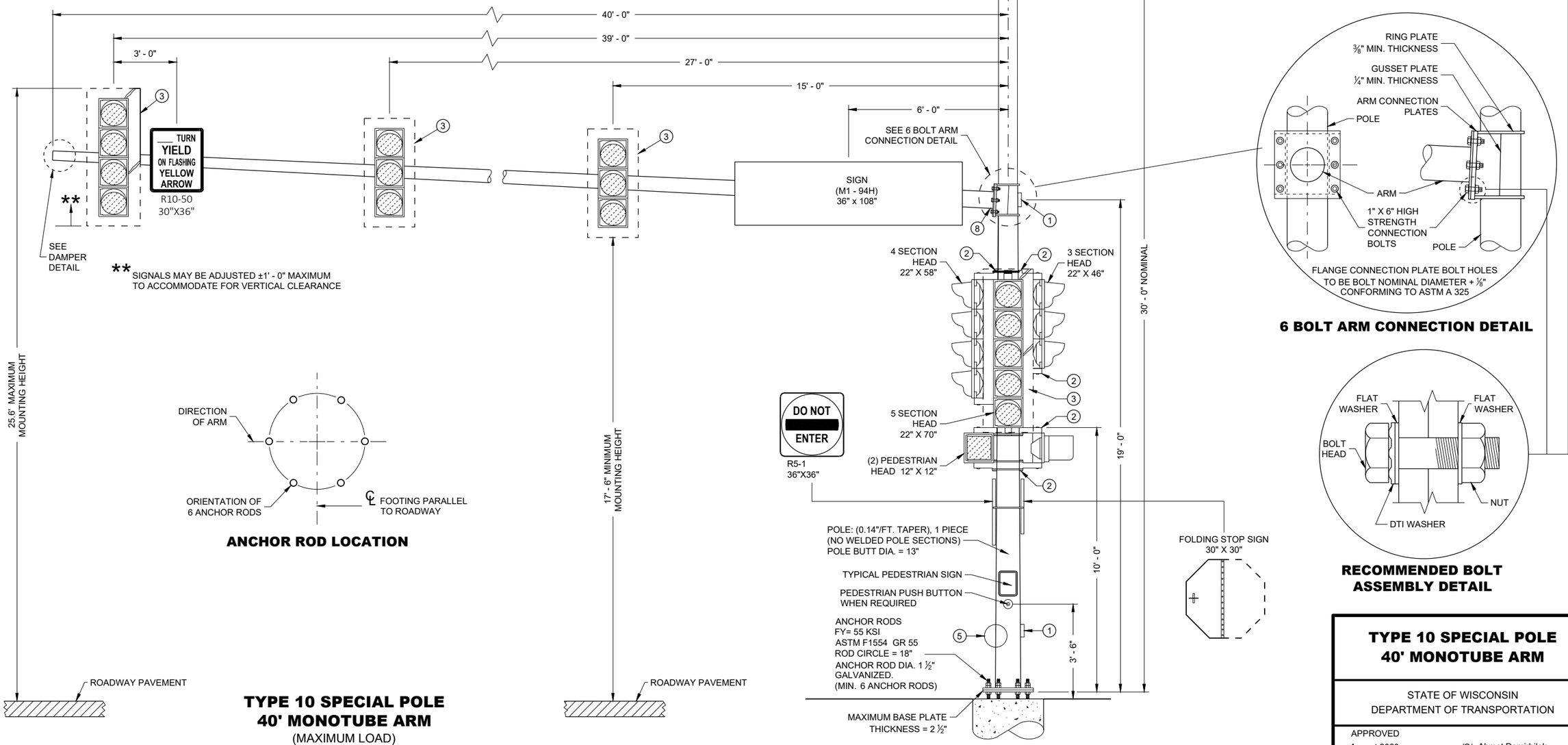
FLAT VIBRATION DAMPER

* MOUNT AS CLOSE TO END OF MAST ARM FOR MAXIMUM DAMPING PER MANUFACTURER'S RECOMMENDATIONS.





FIXED ARM ATTACHMENT DETAIL



** SIGNALS MAY BE ADJUSTED ±1' - 0" MAXIMUM TO ACCOMMODATE FOR VERTICAL CLEARANCE

ANCHOR ROD LOCATION

TYPE 10 SPECIAL POLE
40' MONOTUBE ARM
(MAXIMUM LOAD)

6 BOLT ARM CONNECTION DETAIL

RECOMMENDED BOLT ASSEMBLY DETAIL

TYPE 10 SPECIAL POLE
40' MONOTUBE ARM

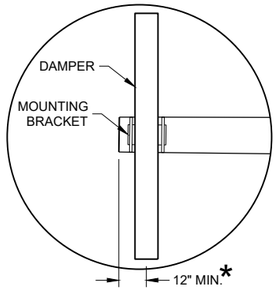
STATE OF WISCONSIN
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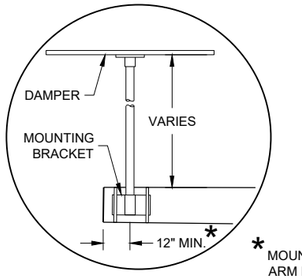
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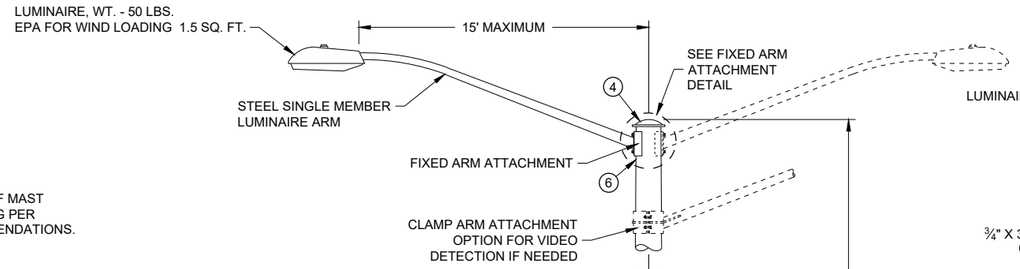


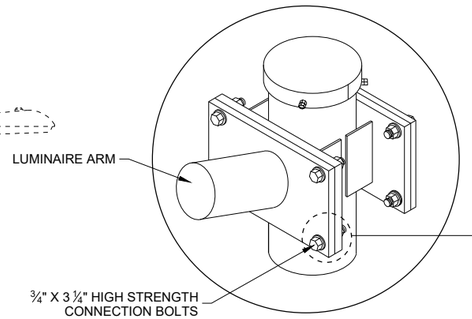
DUMBBELL VIBRATION DAMPER



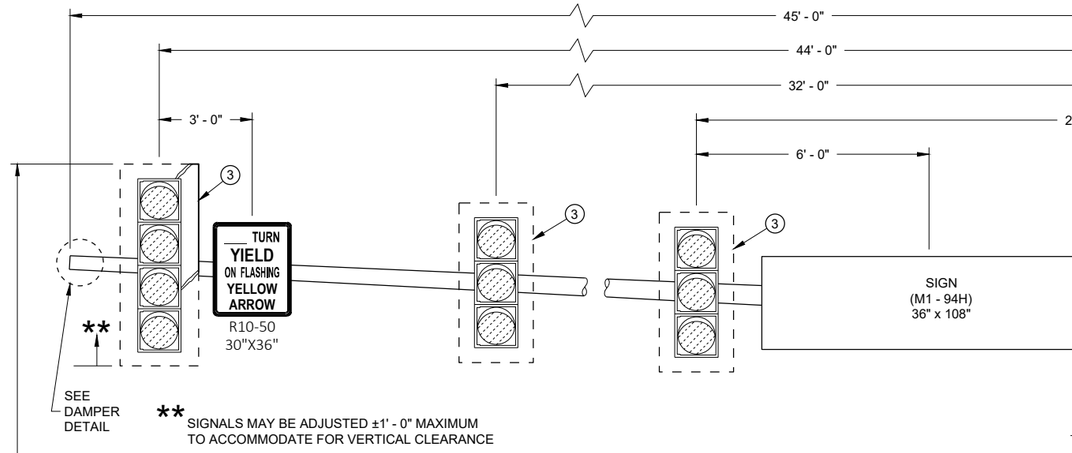
FLAT VIBRATION DAMPER

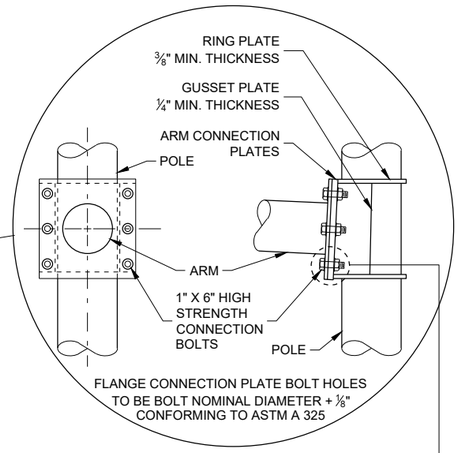
* MOUNT AS CLOSE TO END OF MAST ARM FOR MAXIMUM DAMPING PER MANUFACTURER'S RECOMMENDATIONS.



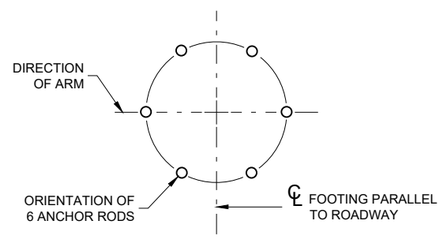


FIXED ARM ATTACHMENT DETAIL

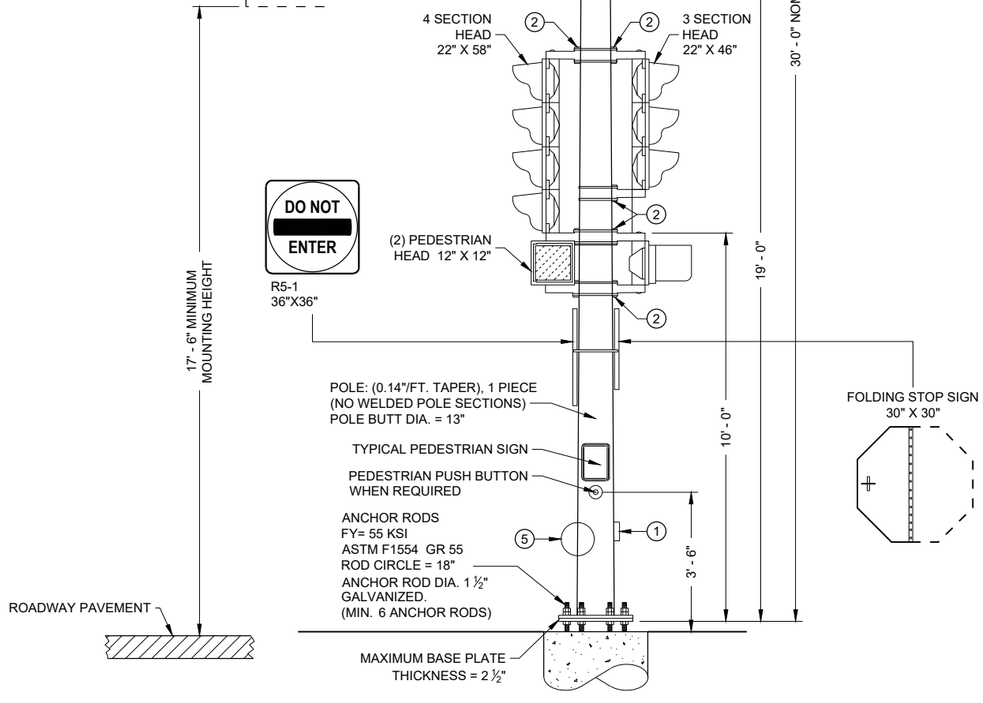


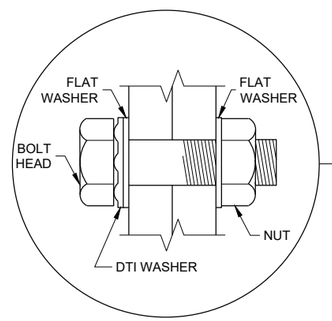


6 BOLT ARM CONNECTION DETAIL



ANCHOR ROD LOCATION





RECOMMENDED BOLT ASSEMBLY DETAIL

TYPE 10 SPECIAL POLE
45' MONOTUBE ARM
(MAXIMUM LOAD)

TYPE 10 SPECIAL POLE
45' MONTUBE ARM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGINEER

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GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

POLE TYPES 9 AND 10 ARE FOR ARM LENGTHS 15 FOOT TO 30 FOOT.

POLE TYPES 9 SPECIAL AND 10 SPECIAL ARE FOR ARM LENGTHS 35 FOOT, 40 FOOT, AND 45 FOOT.

POLE TYPES 12 AND 13 ARE FOR ARM LENGTHS 35 FOOT TO 55 FOOT.

MONOTUBE POLES AND ARMS SHALL BE GALVANIZED STEEL.

RING STIFFENED BUILT UP BOX TYPE OF ATTACHMENT FOR TRAFFIC SIGNAL ARM.

ONE PIECE POLE CONSTRUCTION (NO WELDED POLE SECTIONS).

STANDARD STRAIGHT ARM DESIGN (3% ± RISE).

SECTION 657, POLES OF THE STANDARD SPECIFICATION SHALL APPLY TO THIS DRAWING.

PROVIDE WIREWAY THRU POLE WALL AND ARM CONNECTION PLATES. PROVIDE ROUND, SMOOTH INSIDE SURFACE.

MANUFACTURER'S SUBMITTED POLE DESIGNS AND DRAWINGS SHALL BE SIGNED AND STAMPED BY A REGISTERED PROFESSIONAL ENGINEER AND CERTIFIED AS BEING IN COMPLIANCE WITH THE AASHTO "LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNAL 2015 1ST EDITION (INCLUDING INTERIM REVISIONS)" AND ALL PERTINENT WISDOT SPECIFICATIONS AND DRAWINGS FOR THE LIGHTING STRUCTURES AS FOLLOWS:

CATEGORY III FATIGUE LOADS OF GALLOPING, TRUCK GUSTS (AT 45 MPH VEHICLE VELOCITY) AND NATURAL WIND GUSTS FOR DESIGN OF TYPE 9 AND TYPE 10 STRUCTURES.

CATEGORY II FATIGUE LOADS OF TRUCK GUSTS (AT 45 MPH VEHICLE VELOCITY) AND NATURAL WIND GUSTS FOR DESIGN OF TYPE 9 SPECIAL AND TYPE 10 SPECIAL STRUCTURES. IN LIEU OF DESIGNING FOR GALLOPING, A VIBRATION DAMPER MITIGATION DEVICE IS REQUIRED TO BE SUPPLIED AND INSTALLED AT THE END OF THE MAST ARM.

CATEGORY II FATIGUE FATIGUE LOADS OF GALLOPING, TRUCK GUSTS (AT 45 MPH VEHICLE VELOCITY) AND NATURAL WIND GUSTS FOR DESIGN OF TYPE12 AND TYPE 13 STRUCTURES.

115 MPH (700 YEAR MRI BASIC WIND SPEED).

SECURE THE OPENING BELOW THE BASE PLATE WITH STAINLESS STEEL OR GALVANIZED STEEL MESH AND SECURE THE MESH WITH ¾" STAINLESS STEEL BANDING AROUND THE LEVELING NUTS.

INDENT PRINT (NOMINAL ½" HIGH) THE POLE LENGTH AND FIRST TWO LETTERS OF THE MANUFACTURERS NAME ON TWO SIDES OF THE BASE PLATE 180 DEGREES APART, BEFORE GALVANIZING. THE ARM SHALL BE IDENTIFIED WITH THE SAME INFORMATION BY INDENT PRINT.

SIGNAL FACE SHALL BE MOUNTED 6 INCHES (NOMINAL) FROM THE END OF THE MONOTUBE ARM OR AS SHOWN ON THE PLAN CONSTRUCTION DETAIL OR A S DIRECTED BY THE PROJECT ENGINEER/ELECTRICAL OPERATIONS PERSONNEL. MOUNT ALL LIKE HEAD AT SAME ELEVATION.

SIGN MOUNTING BRACKETS SHALL BE FURNISHED IN ACCORDANCE WITH SECTION 637 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.

(1) DESIGN FOR MAXIMUM ALLOWABLE HAND HOLE WITH COVER ASSEMBLY WITH TWO ¼" X ¾" - 20 TPI STAINLESS STEEL HEX HEAD BOLTS.

(2) SIGNAL MOUNTING BRACKETS FOR POLE MOUNTING, MOUNT WITH CAP SCREW AND BANDING (SEE SPECIFICATION SECTION 658).

(3) SECURELY MOUNT BACK PLATES, PROJECTING 5" BEYOND ALL SIDES OF THE SIGNAL FACE HOUSING, PER MANUFACTURERS RECOMMENDATIONS.

(4) THE TOP OF THE POLE SHAFT AND THE MONOTUBE ARM SHALL BE EQUIPPED WITH A REMOVABLE, VENTILATED CAP HELD SECURELY IN PLACE WITH SET SCREWS.

(5) FACTORY WELDED BRACKET FOR GROUNDING LUG, OPPOSITE HAND HOLD, (LUG AND HARDWARE PAID UNDER SEPARATE ITEM). PROVIDE HOLE IN BRACKET FOR ¼" X ¾" - 20 TPI STAINLESS STEEL HEX HEAD BOLT.

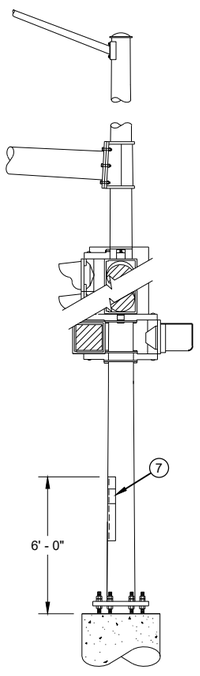
(6) FACTORY WELDED "J" HOOK FOR STRAIN RELIEF FOR POLE LUMINAIRE WIRE.

(7) INSTALL STRUCTURAL IDENTIFICATION PLAQUES.

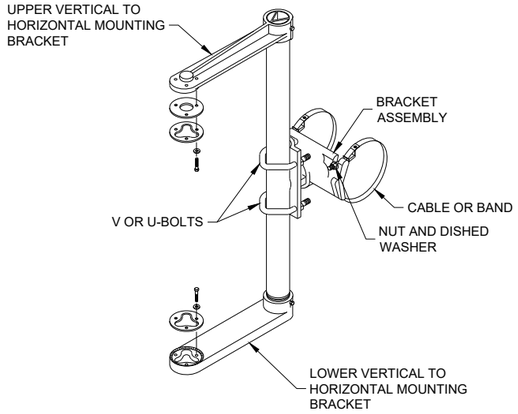
STRUCTURAL IDENTIFICATION PLAQUES SHALL BE PLACED ON THE POLES IN THE SAME DIRECTION AS THE ARM.

MOUNTING HEIGHT SHALL BE 6' - 0" ABOVE THE CURB OR SHOULDER. ADJUST IF IT IS KNOWN THAT REQUIRED TRAFFIC SIGNS WILL BE OBSTRUCTED.

(8) FACTORY DRILLED ½" DRAIN HOLE 2" FROM FLANGE CONNECTION PLATE.



STRUCTURAL IDENTIFICATION PLAQUE PLACEMENT

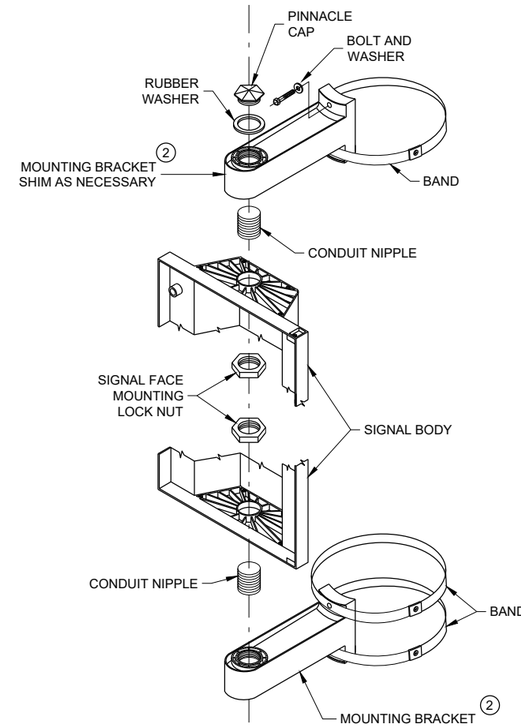


SIGNAL FACE MOUNTING BRACKET DETAIL FOR MONOTUBE ARM

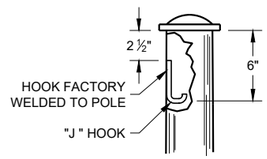
(MOUNT PER MANFACTURER'S RECOMMENDATION)

TYPICAL GROUNDING (5) CONNECTIONS

NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL



SIGNAL FACE VERTICAL MOUNTING DETAIL



TYPICAL "J" HOOK (6) WIRE SUPPORT

GENERAL NOTES AND HARDWARE FOR TYPES 9,10, 9/10 SPECIAL, 12 AND 13 POLES WITH MONOTUBE ARMS

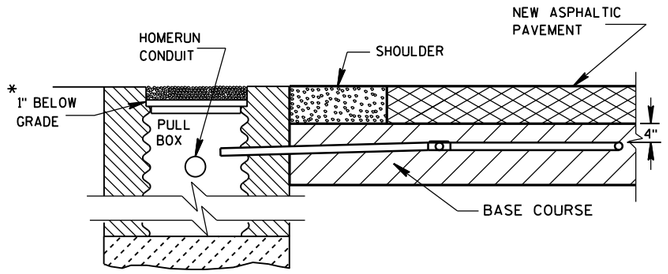
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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August 2020 — DATE
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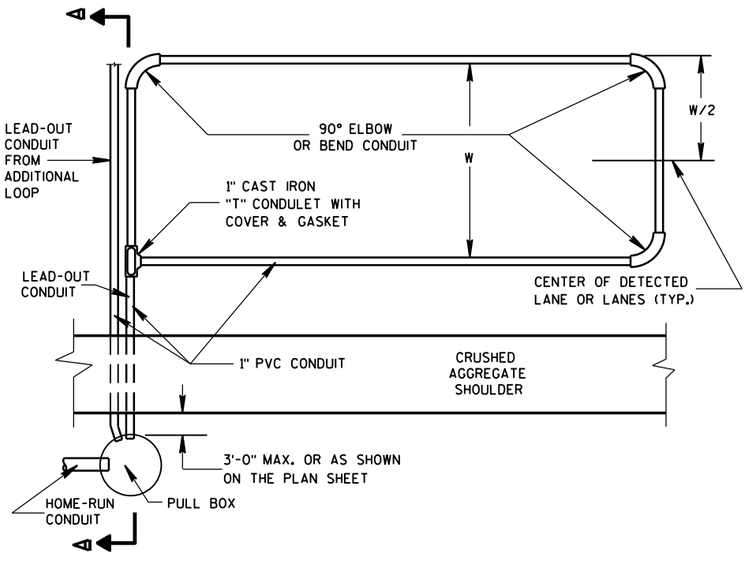
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SECTION A-A
NO CURB & GUTTER

DETECTOR LOOP INSTALLATION DETAIL

*RECESS PULL BOX SO THAT THE COVER IS 3" BELOW GRADE IN SHOULDER AREAS OF CRUSHED AGGREGATE. BACKFILL OVER COVER WITH THE CRUSHED AGGREGATE TO BRING THE AREA TO GRADE LEVEL.



TYPICAL PLAN OF LOOP DETECTOR

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

LOOP SIZE, LOCATION, NUMBER OF TURNS OF WIRE AND ASSOCIATED SIGNAL PHASE SHALL BE AS SHOWN ON THE PLANS.

PITCH LEAD-OUT CONDUIT TO DRAIN TO ROADSIDE PULL BOX.

SPLICES SHALL BE INSTALLED BY USING CAST IN PLACE SPLICE KITS LISTED ON THE DEPARTMENTS APPROVED PRODUCTS LIST OR AN ENGINEER APPROVED EQUAL. NON-INSULATED BUTT SPLICES TO FIT #12 AWG STRANDED WIRE SHALL BE USED. SPLICES SHALL BE SOLDERED AND INSULATED FROM EACH OTHER AS PER INSTRUCTIONS INCLUDED IN THE SPLICE KIT.

MEASURE GROUND RESISTANCE USING A MEGGER. REPLACE LOOP WIRE NOT ATTAINING A READING OF INFINITY TO GROUND.

AFTER SPLICING THE LOOP WIRE TO THE LOOP LEAD-IN CABLE, THE CONTRACTOR SHALL MEASURE INDUCTANCE, GROUND RESISTANCE AND WIRE RESISTANCE AT THE CABINET END OF THE LEAD-IN CABLE AND FURNISH A COPY OF THE READINGS TO THE PROJECT ENGINEER FOR EVALUATION.

LOOP DETECTOR LEADS SHALL BE IDENTIFIED WITH THEIR ASSOCIATED LOOP BY USE OF WATERPROOF TAGS AT BOTH ENDS OF THE CABLE. A LISTING OF THE CABLE IDENTIFICATION PER INDIVIDUAL LOOP LEAD-IN SHALL BE PLACED IN THE CABINET.

THE #12 AWG LOOP WIRE FROM THE LOOP TO THE ROADSIDE PULL BOX, SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER FOOT BEFORE INSTALLATION.

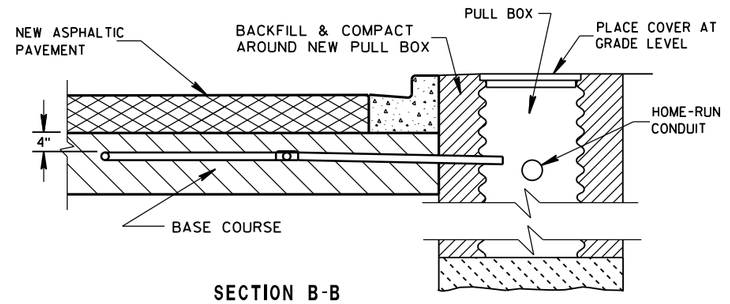
SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL BOXES AT THE SIDE OF THE ROAD.

THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL BOX, THROUGH THE LOOP DUCT, BACK TO THE ROADSIDE PULL BOX, AND BE INSTALLED IN ONE, NON-SPLICED, CONTINUOUS LENGTH.

PROTECTION OF THE CONDUIT AND CONDULET SHALL BE REQUIRED AFTER INSTALLATION AND BEFORE THE ASPHALTIC PAVEMENT IS PLACED.

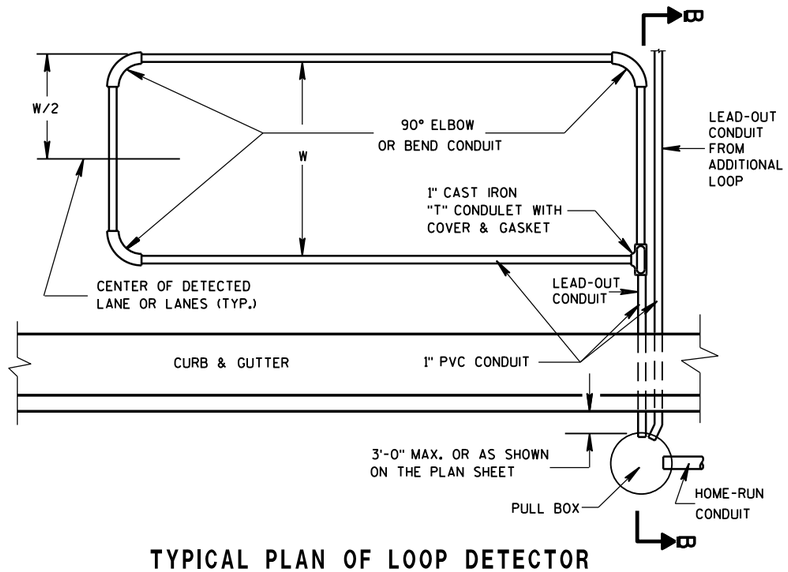
WHEN MULTIPLE LAYERS OF ASPHALTIC PAVEMENT ARE TO BE PLACED, LOOPS MAY BE INSTALLED BY SAWING A TWO INCH WIDE SLOT IN THE FIRST LAYER, DIG OUT THE ASPHALTIC MATERIAL AND BASE COURSE, PLACE THE LOOP, FILL THE SLOT WITH BASE COURSE MATERIAL AND NEW ASPHALTIC MATERIAL AND TAMP THE ASPHALTIC MATERIAL IN PLACE.

SHOULD TRAFFIC BE ALLOWED TO USE THE AREA OF ROADWAY WITH THE NEWLY INSTALLED LOOP BEFORE THE PLACEMENT OF THE NEXT LAYER OF ASPHALTIC PAVEMENT, THE SLOT/PAVEMENT OPENING SHALL BE SEALED WITH HOT POURED ELASTIC TYPE MATERIAL CONFORMING TO THE REQUIREMENTS OF THE "SPECIFICATION FOR JOINT SEALANTS, HOT POURED, FOR CONCRETE AND ASPHALT PAVEMENTS, ASTM DESIGNATION: D3405".



SECTION B-B
CURB & GUTTER

LOOP DETECTOR INSTALLATION DETAIL



TYPICAL PLAN OF LOOP DETECTOR

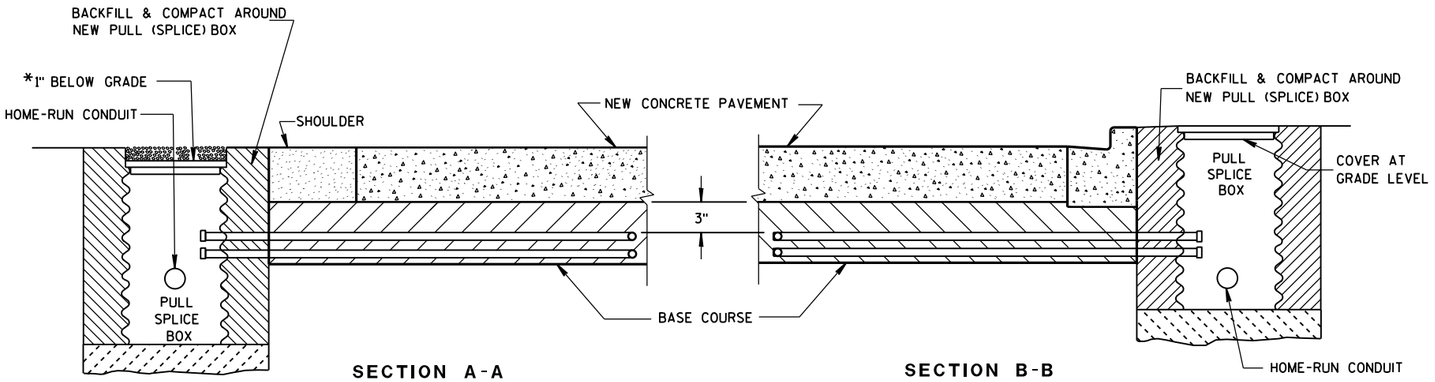
LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW ASPHALTIC PAVEMENT)	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
Sept. 2014 DATE	/S/ Ahmet Demirbilek STATE ELECTRICAL ENGINEER
FHWA	

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S.D.D. 9 F 8-4

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SECTION A-A
NO CURB & GUTTER

SECTION B-B
CURB & GUTTER

*RECESS PULL (SPLICE) BOX SO THAT THE COVER IS 3" BELOW GRADE IN SHOULDER AREAS OF CRUSHED AGGREGATE. BACKFILL OVER COVER WITH THE CRUSHED AGGREGATE TO BRING THE AREA TO GRADE LEVEL.

LOOP DETECTOR INSTALLATION DETAIL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

LOOP SIZE, CONFIGURATION LOCATION, NUMBER OF TURNS OF WIRE AND ASSOCIATED SIGNAL PHASE SHALL BE AS SHOWN ON THE PLANS.

PITCH LEAD OUT CONDUIT TO DRAIN TO ROADSIDE PULL (SPLICE) BOX.

SPLICES SHALL BE INSTALLED BY USING CAST IN PLACE SPLICE KITS LISTED ON THE DEPARTMENTS APPROVED PRODUCTS LIST OR AN ENGINEER APPROVED EQUAL. NON-INSULATED BUTT SPLICES TO FIT #12 AWG STRANDED WIRE SHALL BE USED. SPLICES SHALL BE SOLDERED AND INSULATED FROM EACH OTHER AS PER INSTRUCTIONS INCLUDED IN THE SPLICE KIT.

MEASURE GROUND RESISTANCE USING A MEGGER. REPLACE LOOP WIRE NOT ATTAINING A READING OF INFINITY TO GROUND.

AFTER SPLICING THE LOOP WIRE TO THE LOOP LEAD-IN CABLE, THE CONTRACTOR SHALL MEASURE INDUCTANCE, GROUND RESISTANCE AND WIRE RESISTANCE AT THE CABINET END OF THE LEAD-IN CABLE AND FURNISH A COPY OF THE READINGS TO THE PROJECT ENGINEER FOR EVALUATION.

LOOP DETECTOR LEADS SHALL BE IDENTIFIED WITH THEIR ASSOCIATED LOOP BY USE OF WATERPROOF TAGS AT BOTH ENDS OF THE CABLE. A LISTING OF THE CABLE IDENTIFICATION PER INDIVIDUAL LOOP LEAD-IN SHALL BE PLACED IN THE CABINET.

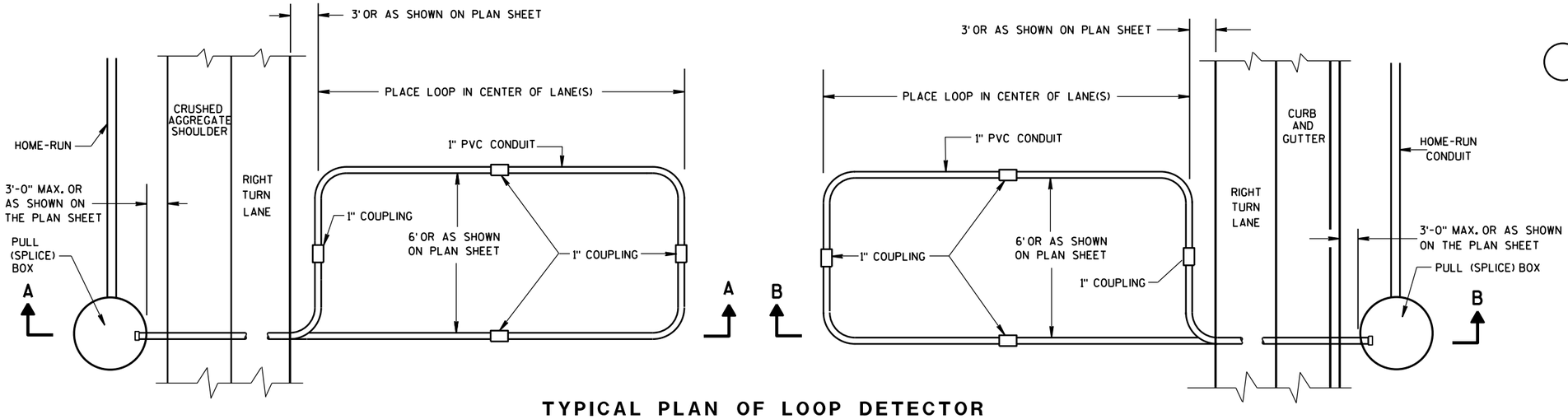
THE #12 AWG. LOOP WIRE IN THE PULL (SPLICE) BOX SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER FOOT BEFORE BEING SPLICED TO THE LOOP LEAD-IN CABLE.

SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL (SPLICE) BOXES AT THE SIDE OF THE ROAD.

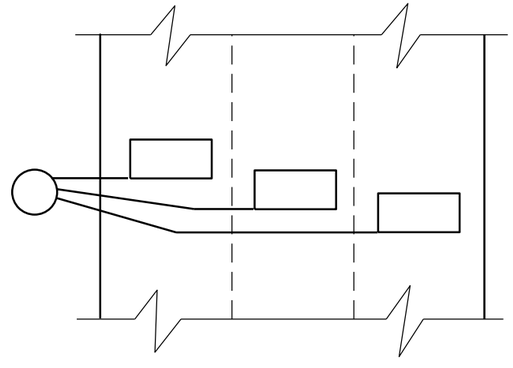
THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL (SPLICE) BOX, THROUGH THE LOOP CONDUIT, BACK TO THE ROADSIDE PULL (SPLICE) BOX, AND BE INSTALLED IN ONE, NON-SPLICED CONTINUOUS LENGTH.

PROTECTION OF THE CONDUITS IN THE BASE COURSE SHALL BE REQUIRED AFTER INSTALLATION AND BEFORE NEW PAVEMENT IS INSTALLED.

SHOULD INSTALLATION REPAIR BE REQUIRED, IT SHALL BE DONE UNDER THE DIRECTION OF THE PROJECT ENGINEER.



TYPICAL PLAN OF LOOP DETECTOR WITH 24" PULL (SPLICE) BOX



MULTI-LANE INSTALLATION

LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGINEER

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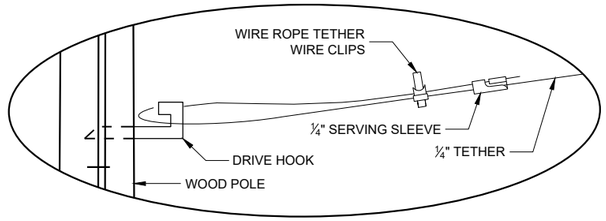
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S.D.D. 9 F 15-4b

6

S.D.D. 9 F 15-4b

MINIMUM POLE LENGTHS	POLE BURIAL DEPTHS
25'	5'
30'	6'
35'	7'
40'	8'
45'	9'

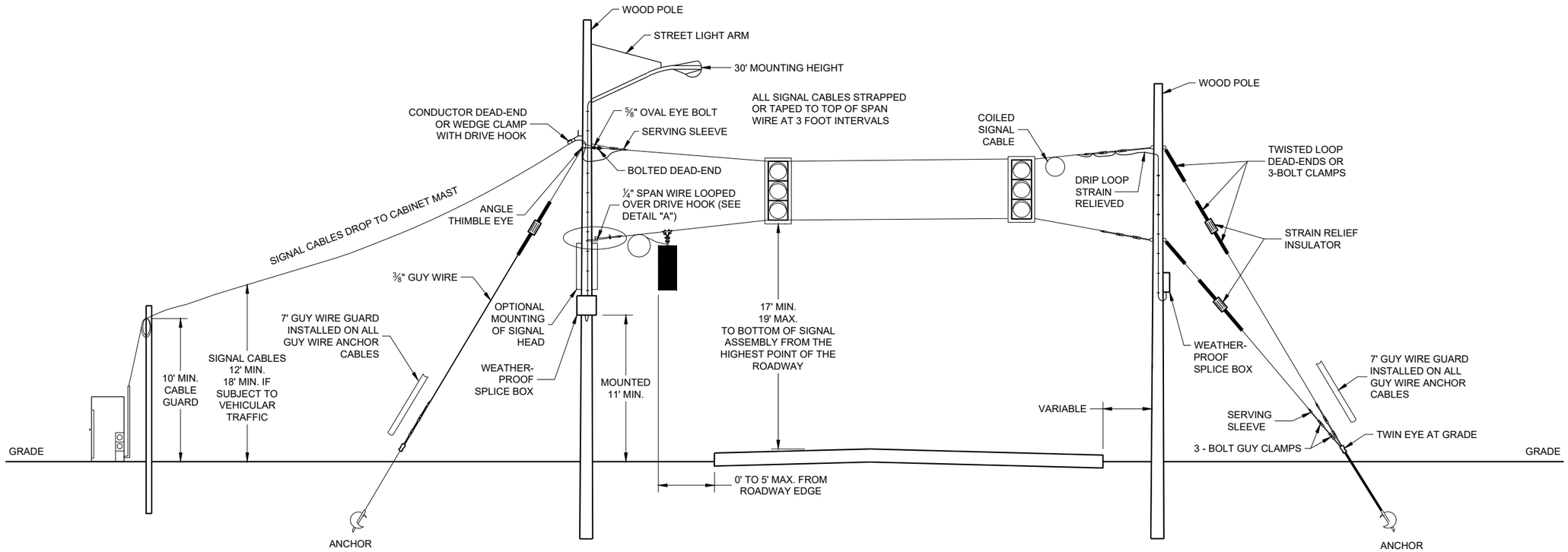


DETAIL "A"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

1. WOOD POLES SHALL BE CLASS 4. LENGTH DETERMINED BY SIGNAL PLAN.
2. SIGNAL FACES:
   A. ALL SECTIONS SHALL BE 12" AND POLYCARBONATE.
   B. EACH SHALL CONTAIN A 5" WIDE DULL BLACK POLYCARBONATE BACKPLATE.
   C. EACH SHALL BE WIRED FROM THE TOP SIGNAL MOUNTING BRACKET.
   D. NEAR RIGHT SIGNAL FACE SUSPENDED ON THE TETHER (NO BACKPLATE) SHALL NOT BE OVER THE TRAVELED WAY. IF THE POLE IS WITHIN 5 FEET OF THE TRAVELED WAY MOUNT THE SIGNAL FACE ON THE WOOD POLE WITH BACKPLATE.
3. SPAN WIRE:
   A. EACH SPAN WIRE SHALL BE INDIVIDUALLY DOWN GUYED
   B. SIGNAL AND LIGHTING CABLES SHALL ONLY BE ATTACHED TO THE UPPER SPAN WIRE.
   C. THE SIGNAL ASSEMBLY SHALL HAVE A 17' MIN. HEIGHT ABOVE THE ROADWAY. THIS SHALL BE MEASURED AFTER THE SPAN WIRE INSTALLATION IS COMPLETED WITH ALL CABLES AND SIGNAL FACES IN PLACE. MAINTAIN MINIMUM AND MAXIMUM HEIGHTS AS ROADWAY WORK PROGRESSES.



SPAN WIRE
TEMPORARY SIGNALS

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2015
DATE

/S/ Ahmet Demerbilek
STATE ELECTRICAL ENGINEER

FHWA

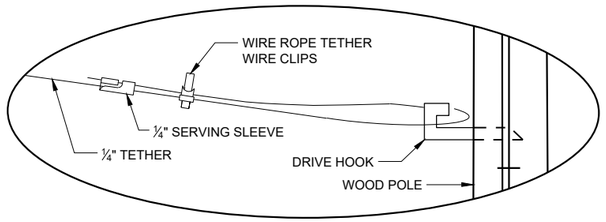
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MINIMUM POLE LENGTHS	CLASS	POLE BURIAL DEPTHS
25'	V	5'
30'	V	6'
35'	IV	7'
40'	IV	8'
45'	IV	9'

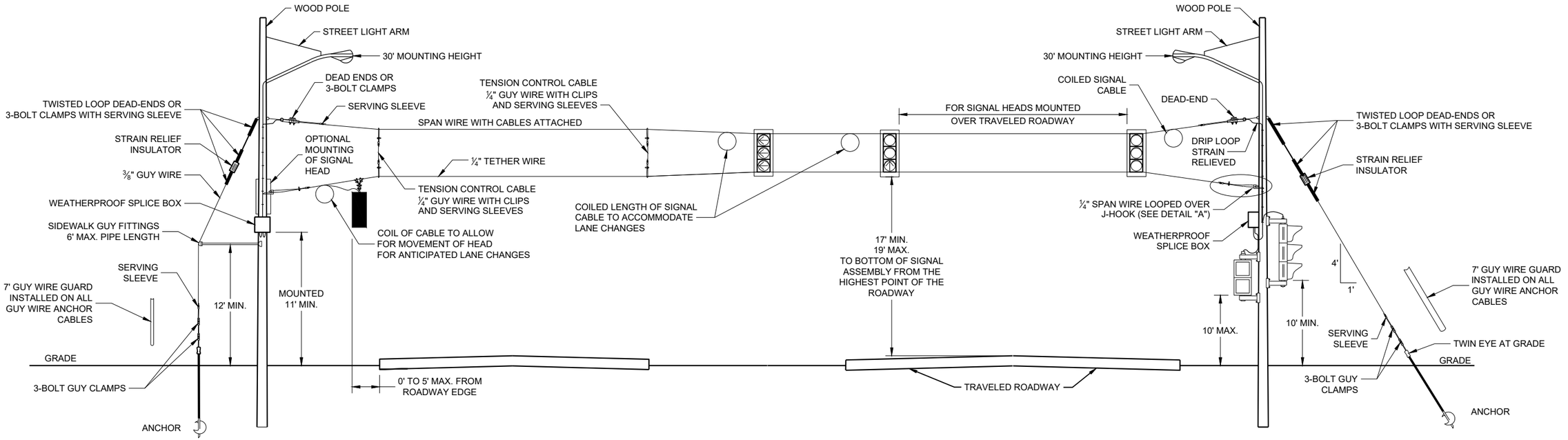


DETAIL "A"

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   E. FAR INDICATION SHALL BE MAINTAINED OVER CENTER OF TRAFFIC LANE.
3. SPAN WIRE:
   A. EACH SPAN WIRE SHALL BE INDIVIDUALLY DOWN GUYED
   B. SIGNAL AND LIGHTING CABLES SHALL ONLY BE ATTACHED TO THE UPPER SPAN WIRE.
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SPAN WIRE
TEMPORARY SIGNALS
4 LANE ROADWAYS

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2015
DATE

/S/ Ahmet Demerbilek
STATE ELECTRICAL ENGINEER

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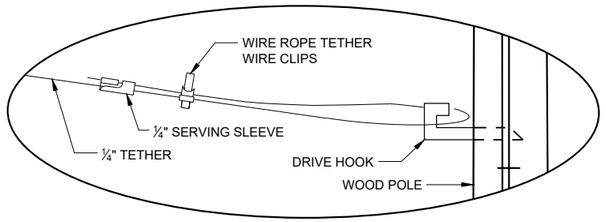
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SDD09G01 - 04b

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SDD09G01 - 04b

MINIMUM POLE LENGTHS	CLASS	POLE BURIAL DEPTHS
25'	V	5'
30'	V	6'
35'	IV	7'
40'	IV	8'
45'	IV	9'

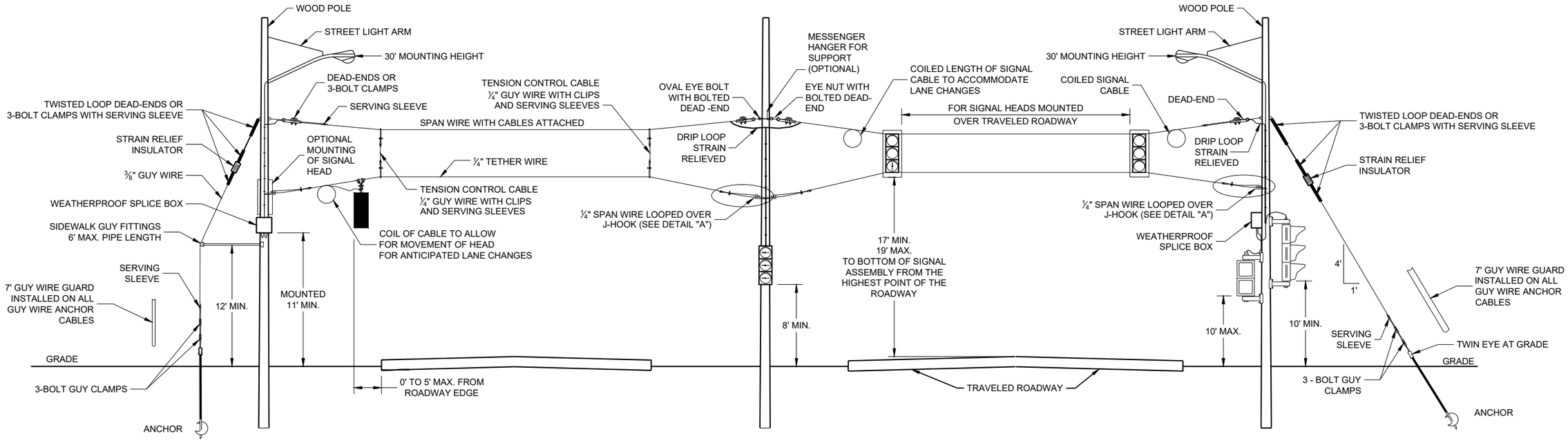


DETAIL "A"

GENERAL NOTES

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SPAN WIRE
TEMPORARY SIGNALS
4 LANE ROADWAYS

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2015
DATE

/S/ Ahmet Demerbilek
STATE ELECTRICAL ENGINEER

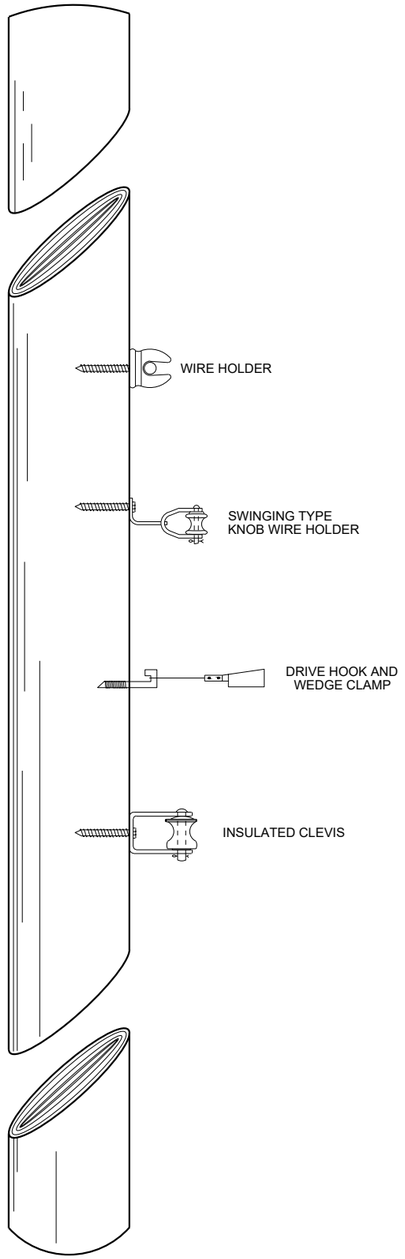
FHWA

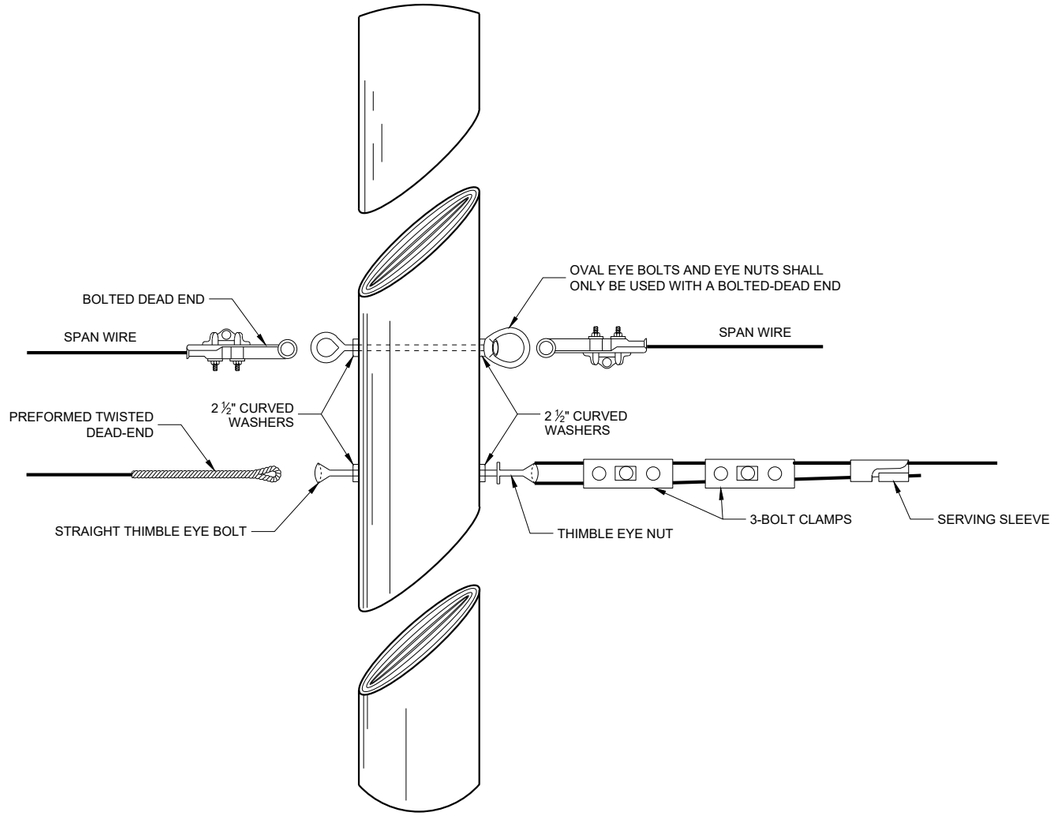
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SDD09G01 - 04c

SDD09G01 - 04c





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SDD 09G01 - 4d

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SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

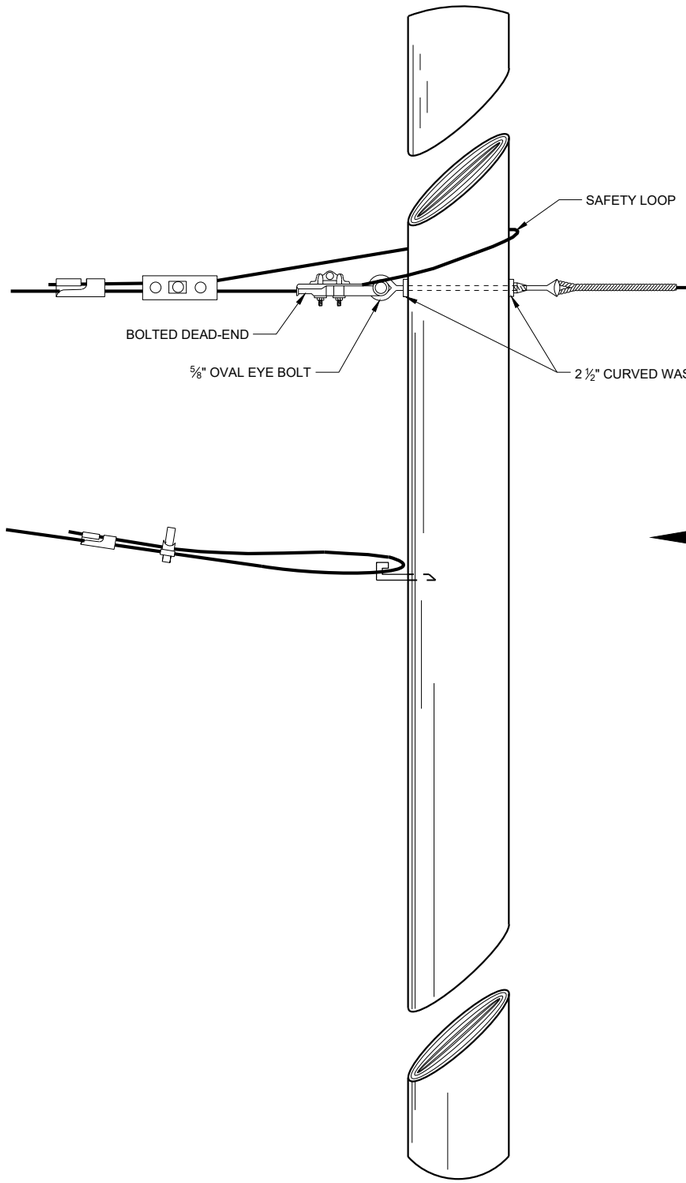
June 2015
DATE

/S/ Ahmet Demerbilek
ROADWAY STANDARDS DEVELOPMENT ENGINEER

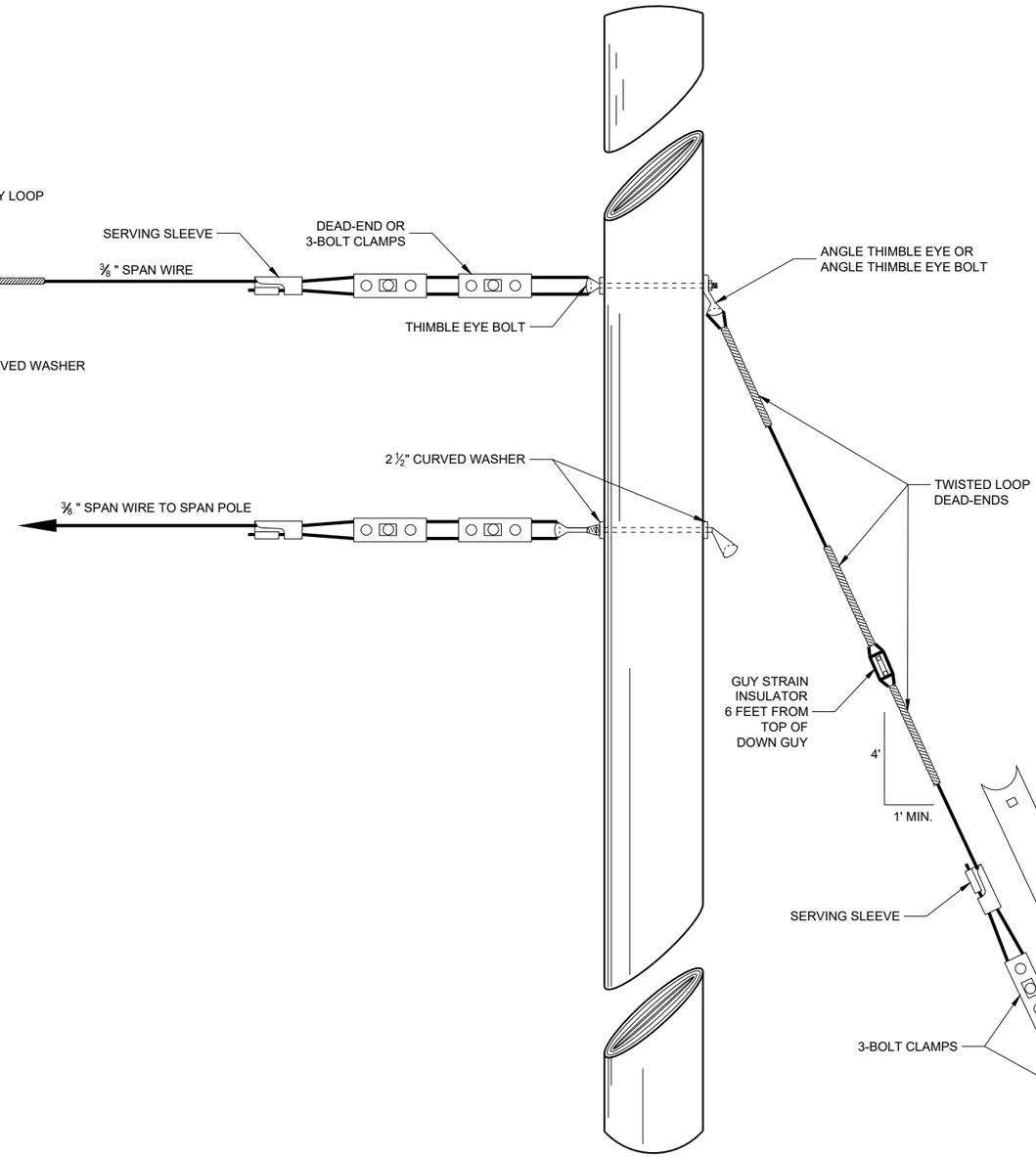
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GENERAL NOTES

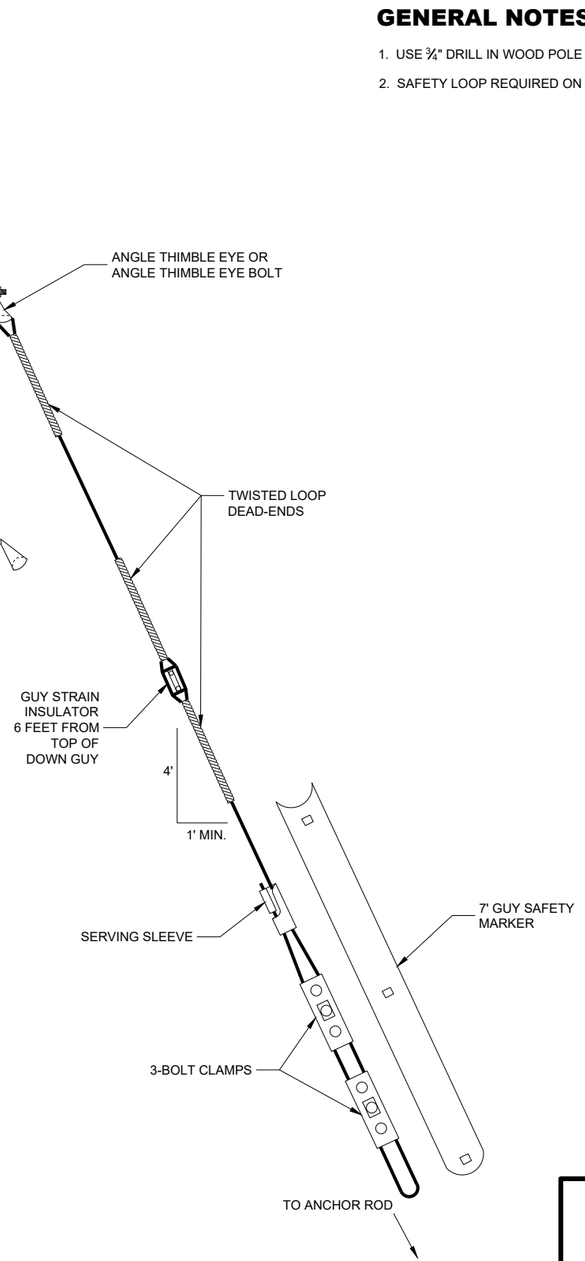
1. USE ¾" DRILL IN WOOD POLE TO PROVIDE FOR ⅝" BOLTS.
2. SAFETY LOOP REQUIRED ON EACH END OF ALL SPAN WIRES.



SPAN WIRE POLE



GUY POLE



TYPICAL DEAD-ENDINGS OR GUYING

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

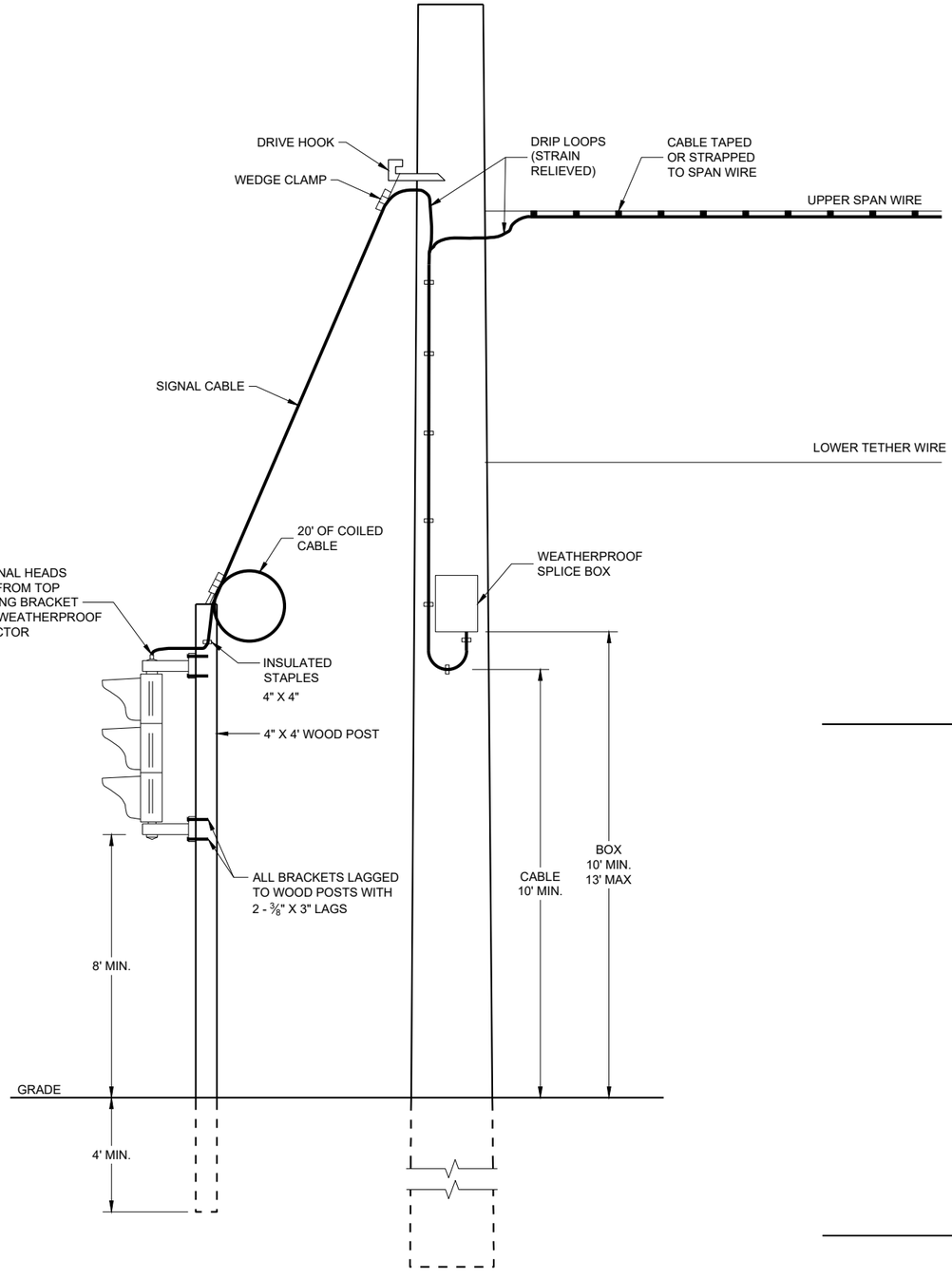
APPROVED
June 2015
DATE

/S/ Ahmet Demerbilek
ROADWAY STANDARDS DEVELOPMENT ENGINEER

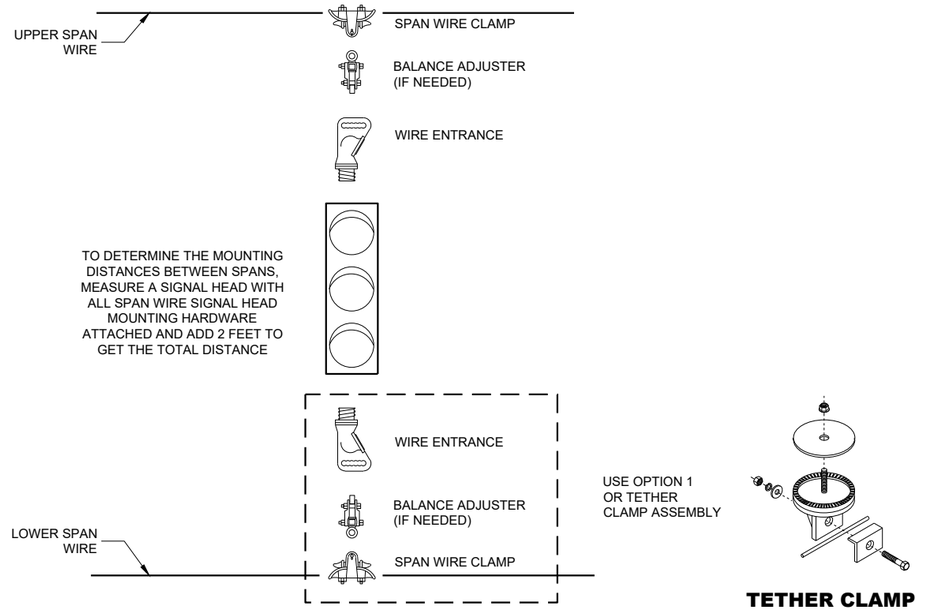
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SDD 09G01 - 4e



TYPICAL DROP TO TEMPORARY MOVEABLE SIGNAL

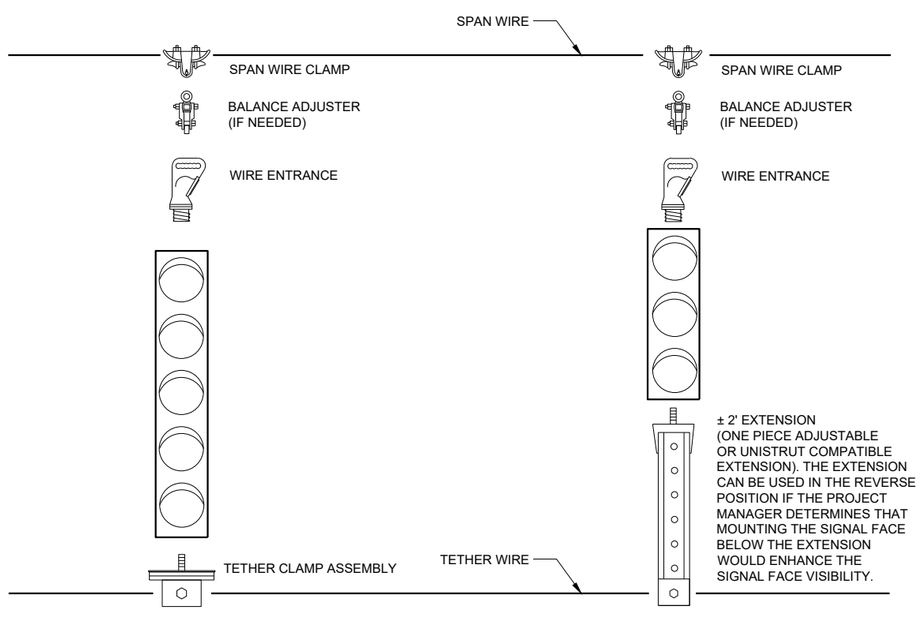


OPTION 1

USE OPTION 1 OR TETHER CLAMP ASSEMBLY

TETHER CLAMP ASSEMBLY OPTION

TYPICAL SPAN WIRE MOUNTING HARDWARE



5 SECTION VERTICAL WITH 3 SECTION VERTICAL ON ONE SPAN WIRE

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

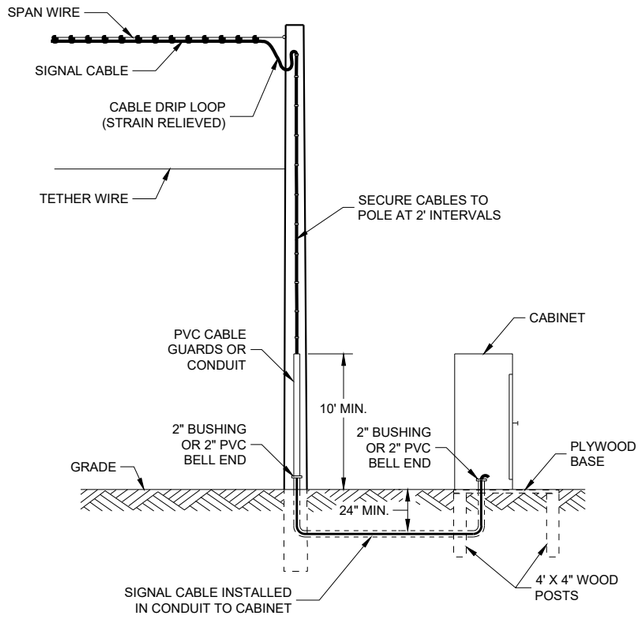
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

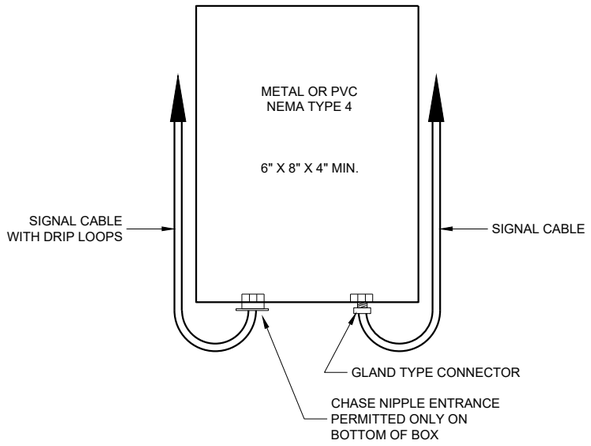
APPROVED
June 2015
DATE

/S/ Ahmet Demerbilek
ROADWAY STANDARDS DEVELOPMENT ENGINEER

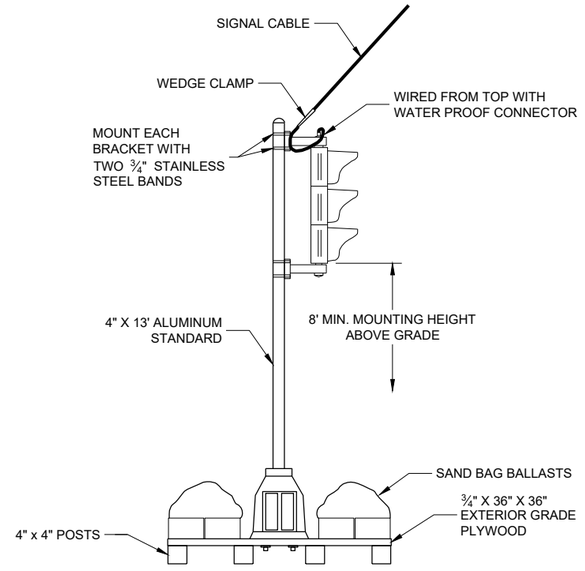
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SDD 09G01 - 4f

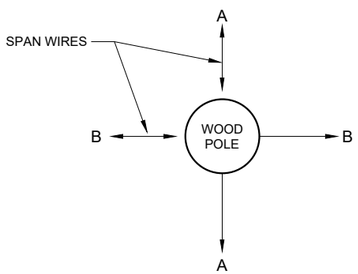




SPLICE BOX

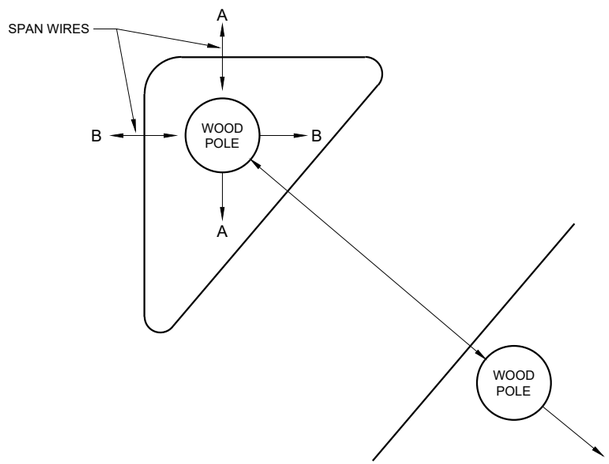


TYPICAL SKID TYPE TEMPORARY

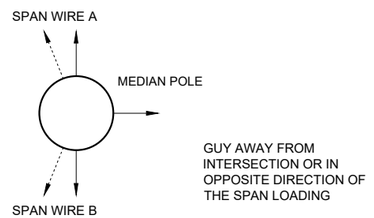


ALL DOWN OR SIDEWALK GUYS SHALL BE INSTALLED IN THE OPOSITE DIRECTION OF THE STRAIN OF THE SPAN WIRE

CORNER POLES



ISLAND POLES



GUY AWAY FROM
INTERSECTION OR IN
OPPOSITE DIRECTION OF
THE SPAN LOADING

MEDIAN POLES

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2015
DATE

/S/ Ahmet Demerbilek
ROADWAY STANDARDS DEVELOPMENT ENGINEER

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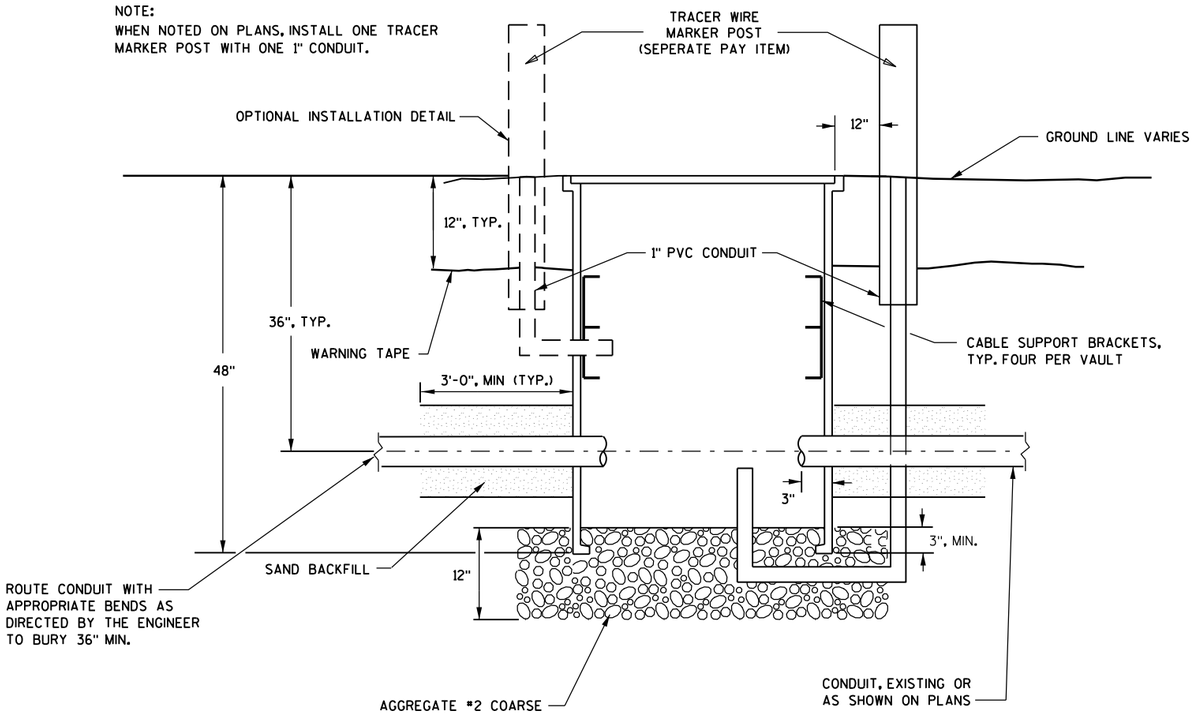
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SDD 09G01 - 4g

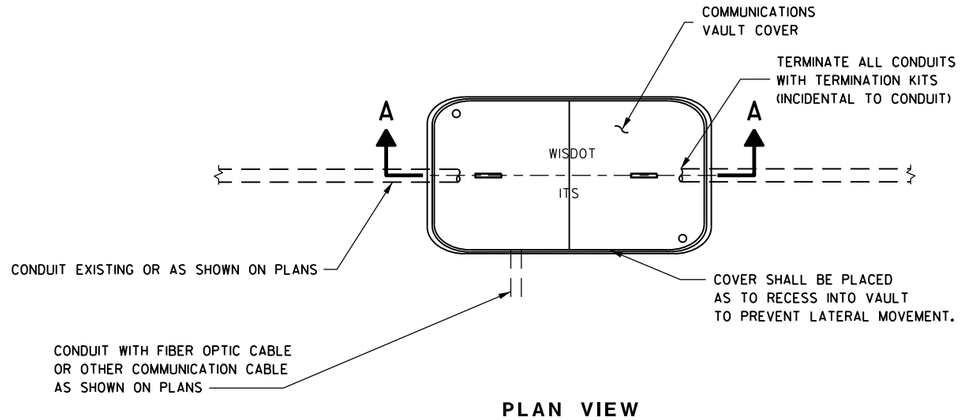
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SDD 09G01 - 4g

NOTE:
WHEN NOTED ON PLANS, INSTALL ONE TRACER MARKER POST WITH ONE 1" CONDUIT.



SECTION A-A



PLAN VIEW

COMMUNICATIONS VAULT TYPE 1

GENERAL NOTES

PROVIDE VAULT WITH OPEN BASE.

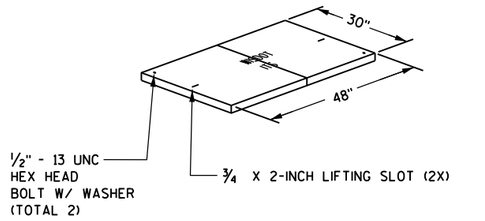
COVER SHALL HAVE A MINIMUM DESIGN LOAD OF 15,000 LBS AND SHALL LOCK.

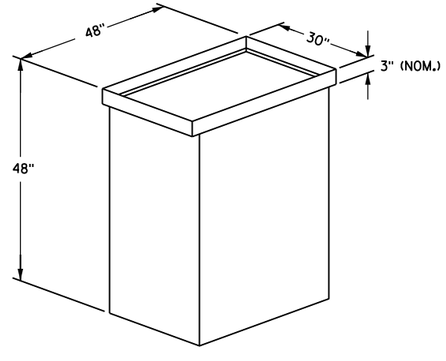
ALL OPENINGS IN STRUCTURE MUST BE MACHINED AT TIME OF FABRICATION, OR PUNCH DRIVEN AT TIME OF PLACEMENT.

VAULTS SHALL BE OF ONE-PIECE CONSTRUCTION. TWO-PIECE/STACKABLE VAULTS WILL NOT BE PERMITTED.

FIELD PLACEMENT OF COMMUNICATIONS VAULTS SHALL BE AS DIRECTED BY THE ENGINEER.

FIBER TRACER MARKER POSTS SHALL BE CONSTRUCTED WITH HIGH-IMPACT PLASTIC MATERIAL WHICH IS FADE RESISTANT AND UV STABLE. ALL HARDWARE SHALL BE STAINLESS STEEL AND CONTAIN A MINIMUM OF FIVE STANDARD TERMINALS.





ISOMETRIC VIEW

COMMUNICATION VAULT
TYPE 1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

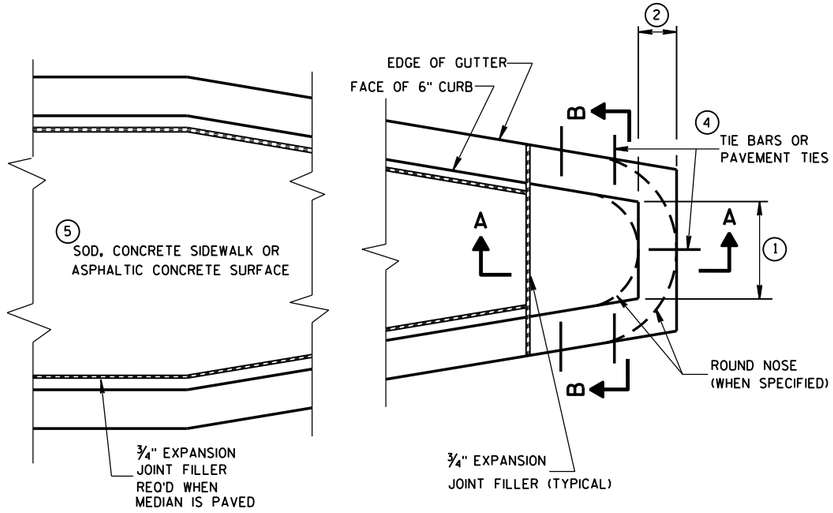
APPROVED
May, 2017 — DATE
/S/Ahmet Demirbilek — STATE ELECTRICAL ENGINEER
FHWA

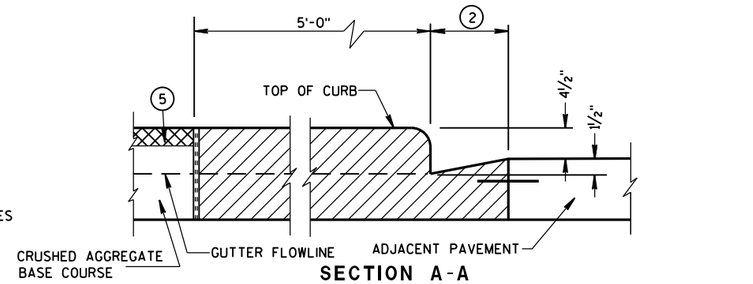
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S.D.D. 9 H 9-2

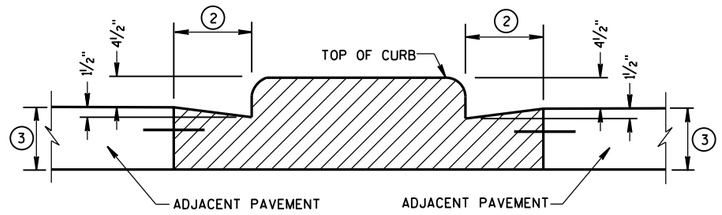
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S.D.D. 9 H 9-2





SECTION A-A



SECTION B-B

CONCRETE MEDIAN BLUNT NOSE DETAIL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(1) SEE PLAN FOR MEDIAN NOSE WIDTH AND RADIUS (FOR ROUND NOSE ALTERNATE).

(2) WIDTH OF GUTTER TO MATCH EXISTING ADJACENT GUTTER OR AS SPECIFIED ELSEWHERE IN THE PLAN.

(3) DEPTH EQUAL TO ADJACENT PAVEMENT. ADJACENT PAVEMENT STRUCTURE DETAILS ARE SHOWN ON THE PLAN. TYPICAL OPTIONS ARE:

(1) NEW OR EXISTING CONCRETE PAVEMENT.

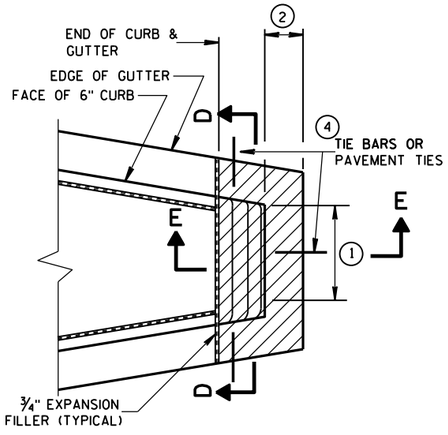
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

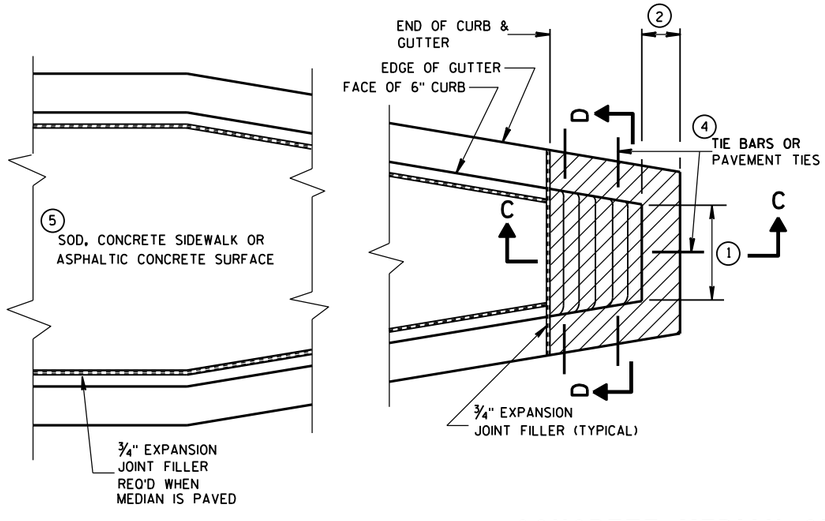
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

(4) TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.

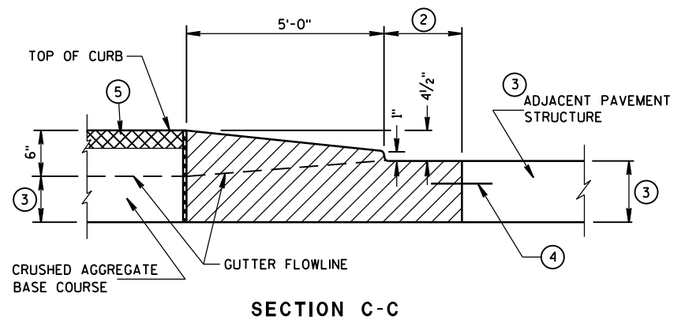
PAVEMENT TIES REQUIRED IN EXISTING CONCRETE BASE COURSE. PAVEMENT TIES SHALL BE NO. 6 X 1'-0" SPACED AT 3'-0" C-C INSTALLED ON A HORIZONTAL SKEW OF 6:1. THE DIRECTION OF SKEW SHALL ALTERNATE AFTER EVERY ONE OR TWO BARS.

(5) SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.

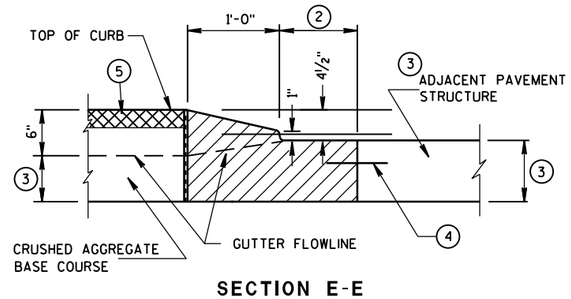




CONCRETE MEDIAN SLOPED NOSE TYPE 1

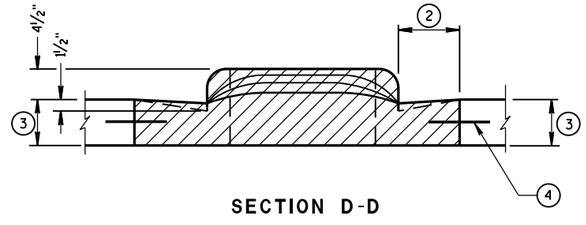


SECTION C-C



SECTION E-E

CONCRETE MEDIAN SLOPED NOSE TYPE 2



SECTION D-D

CONCRETE MEDIAN NOSE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

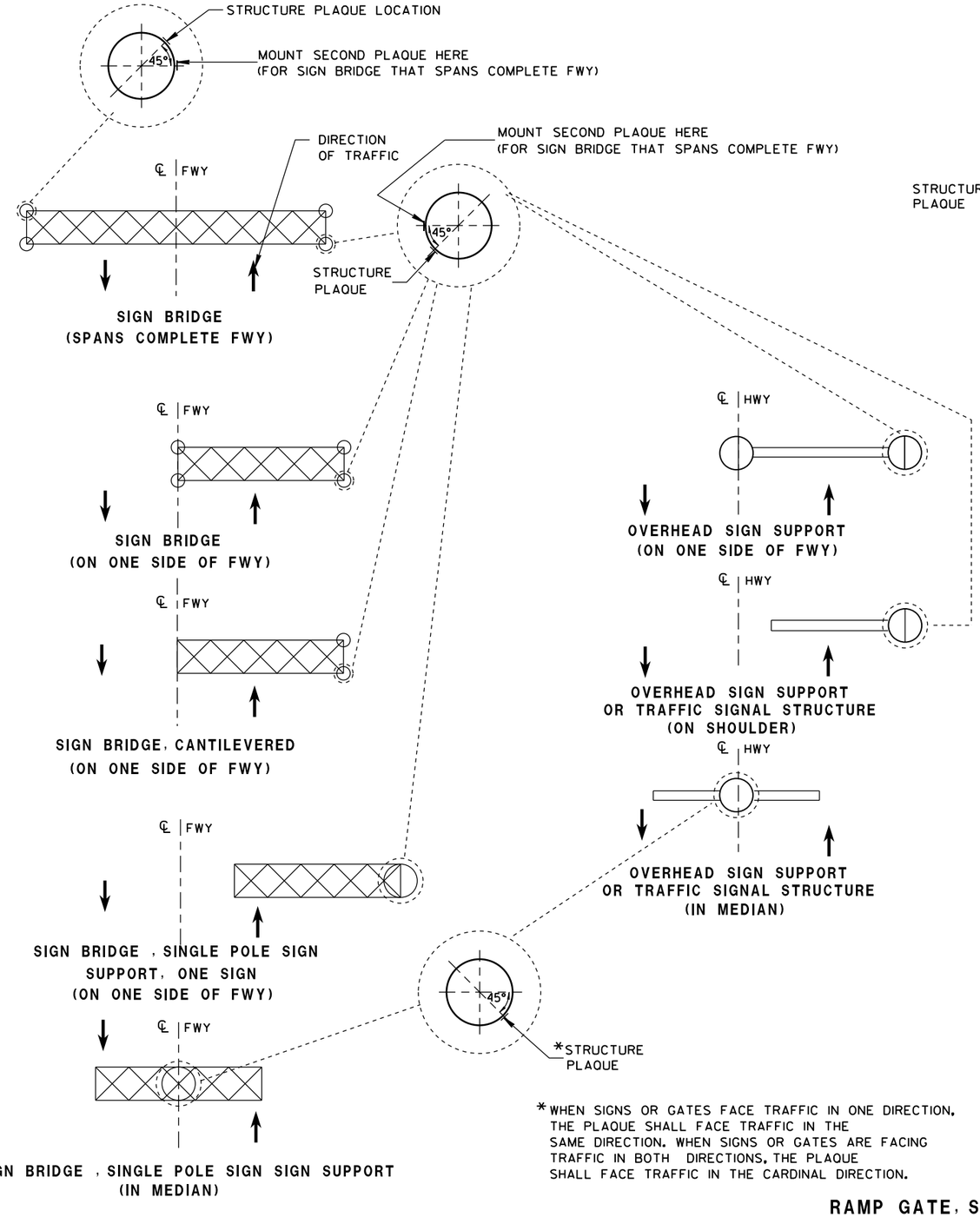
6/8/2006
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

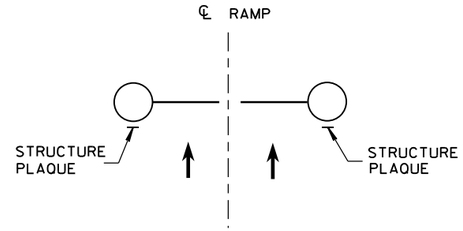
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S.D.D. 11 B 2-2

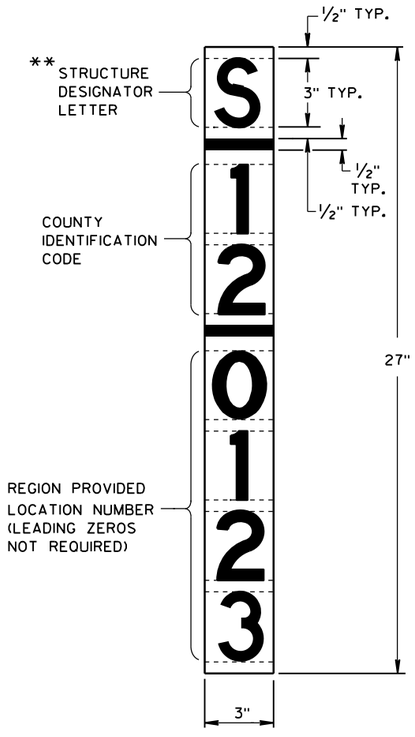


* WHEN SIGNS OR GATES FACE TRAFFIC IN ONE DIRECTION, THE PLAQUE SHALL FACE TRAFFIC IN THE SAME DIRECTION. WHEN SIGNS OR GATES ARE FACING TRAFFIC IN BOTH DIRECTIONS, THE PLAQUE SHALL FACE TRAFFIC IN THE CARDINAL DIRECTION.

LOCATION OF RAMP GATE, SIGN BRIDGE, OVERHEAD SIGN SUPPORT & TRAFFIC SIGNAL STRUCTURE PLAQUES



**RAMP GATE
(ACROSS FWY ON-RAMP)**



** LETTER "G" UTILIZED FOR RAMP GATES. LETTER "S" UTILIZED FOR SIGN BRIDGES, OVERHEAD SIGN SUPPORTS, AND TRAFFIC SIGNALS.

RAMP GATE, SIGN BRIDGE, OVERHEAD SIGN SUPPORT AND TRAFFIC SIGNAL STRUCTURE PLAQUE FOR SIGN BRIDGES AND OVERHEAD SIGN SUPPORT WHICH ARE NOT STRUCTURE MOUNTED

GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN IN THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PLAQUES SHALL BE INCIDENTAL TO ALL NEW INSTALLATIONS.

IF THE PROPOSED SIGN BRIDGE OR OVERHEAD SIGN SUPPORT IS REPLACING AN EXISTING SIGN BRIDGE OR OVERHEAD SIGN SUPPORT, A NEW IDENTIFICATION PLAQUE WILL BE REQUIRED.

FASTEN TOP, CENTER AND BOTTOM OF PLAQUE TO POLE OR OTHER LOCATION AS FOLLOWS:

GALVANIZED STEEL SHAFT - 3 STAINLESS STEEL POP RIVETS

A588 STEEL SHAFT - SHIM FOR DRAINAGE WITH STAINLESS WASHERS; FASTEN WITH STAINLESS SELF-TAPPING SCREWS

ALUMINUM SHAFTS - 3 ALUMINUM POP RIVETS

MOUNTING HEIGHT SHALL BE APPROXIMATELY 5.0' ABOVE CURB OR SHOULDER. ADJUST IF IT IS KNOWN THAT REQUIRED TRAFFIC SIGNS WILL OBSTRUCT.

PLAQUE MATERIALS:

BASE - SHEET ALUMINUM, 0.060" THICK.

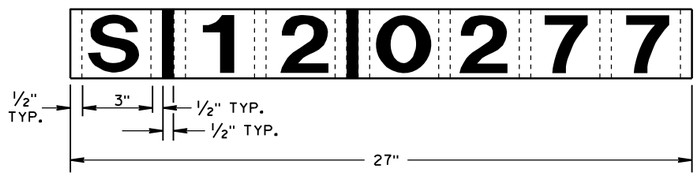
FACE - WHITE, SELF-ADHESIVE VINYL SHEETING, NON-RETROREFLECTIVE

LINES - BLACK, ½" WIDE, SELF-ADHESIVE

CHARACTERS:- BLACK, SELF ADHESIVE, SERIES "D", SIZE AS SHOWN.

FOR SIGN BRIDGES, STRUCTURE MOUNTED, THE STRUCTURE PLAQUE SHALL BE MOUNTED HORIZONTALLY AS SHOWN ON THE DRAWING. THE STRUCTURE PLAQUE SHALL BE MOUNTED HORIZONTALLY TO THE BACK OF THE SIGN, BETWEEN THE ALUMINUM EXTRUSIONS, NEAR THE TOP LEFT HAND CORNER OF THE SIGN. THE BASE MATERIAL SHALL BE OMITTED AND THE FACE ADHERED DIRECTLY TO THE ALUMINUM SURFACE. PRIOR TO ADHERING THE MATERIAL, THE ALUMINUM SURFACE SHALL BE SMOOTH, CLEAN AND DRY.

WHERE SIGN BRIDGE ILLUMINATION IS PROVIDED, THE STRUCTURE MUST ALSO HAVE A SIGN BRIDGE CIRCUIT PLAQUE AS SHOWN IN THE ELECTRICAL DETAILS.

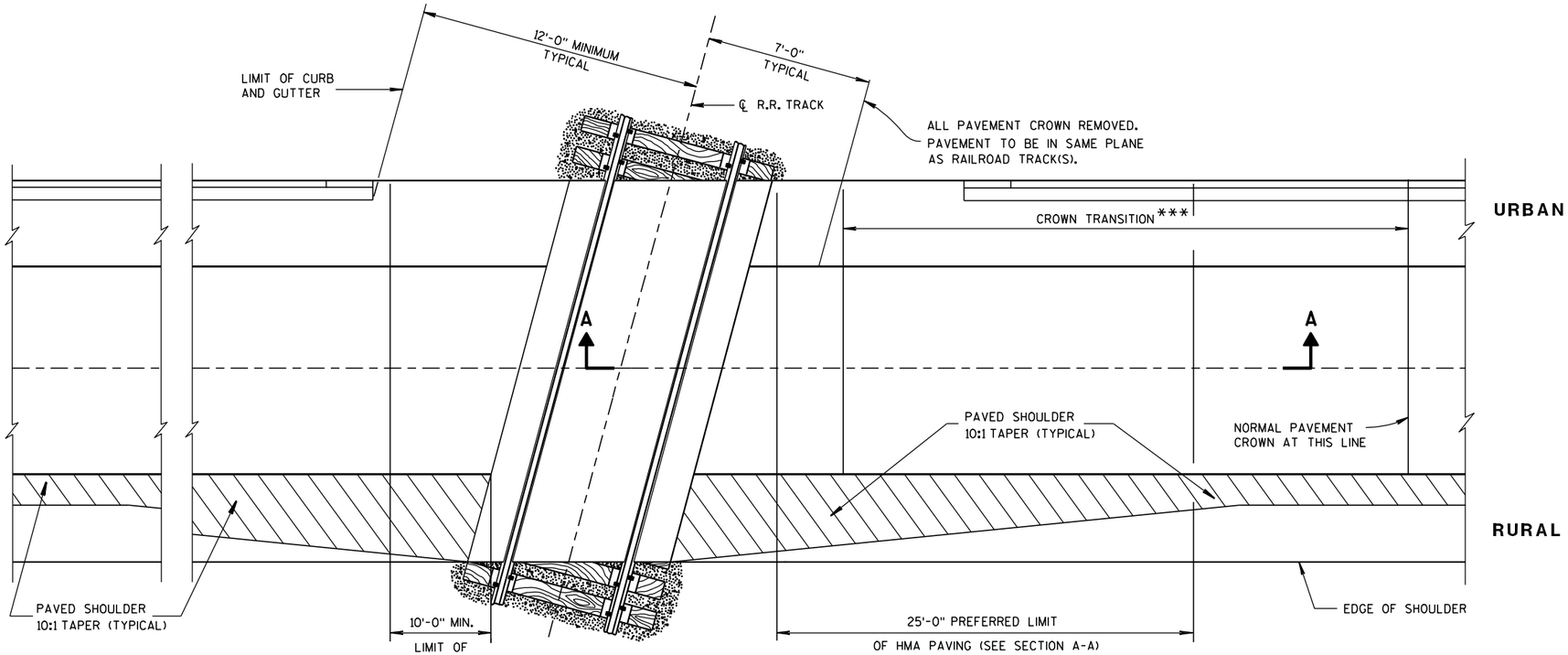


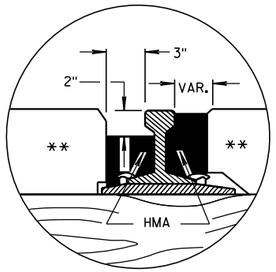
IDENTIFICATION PLAQUE FOR SIGN BRIDGE, STRUCTURE MOUNTED

STRUCTURE IDENTIFICATION PLAQUES, RAMP GATES, SIGN BRIDGES, OVERHEAD SIGN SUPPORTS, & TRAFFIC SIGNALS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
12/4/2012 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER OF DESIGN
FHWA





DETAIL B

HMA FLANGEWAY AND FIELD FILLERS

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

TIMBER, CONCRETE OR RUBBER CROSSING SURFACE MATERIAL, RAILS, TIES, BALLAST, GEOTEXTILE FABRIC AND CROSSING DRAINAGE SYSTEM BY OTHERS UNLESS OTHERWISE PROVIDED.

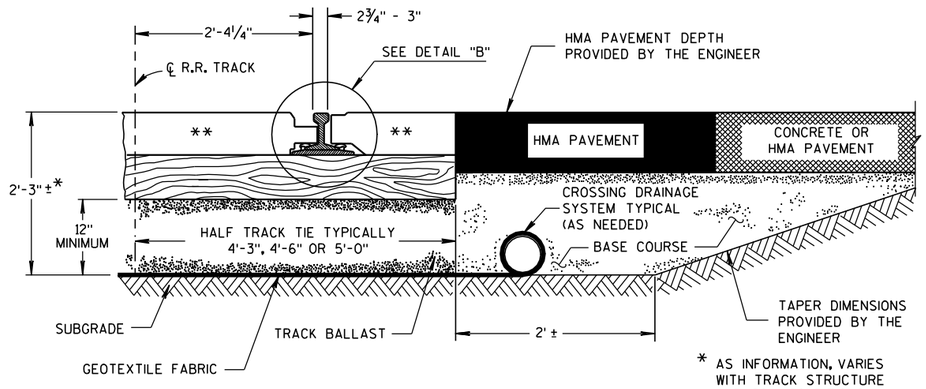
HMA PAVEMENT APPROACHES AND HMA PAVEMET CROSSING SURFACES TO BE PLACED BY CONTRACTOR UNLESS OTHERWISE PROVIDED.

HMA FLANGEWAY AND FIELD FILLERS TO BE PLACED AND THOROUGHLY HAND COMPACTED BY THE CONTRACTOR WHEN NOT PROVIDED BY OTHERS. SEE DETAIL B. HMA FILLERS NOT REQUIRED WHEN RUBBER FILLERS ARE PROVIDED.

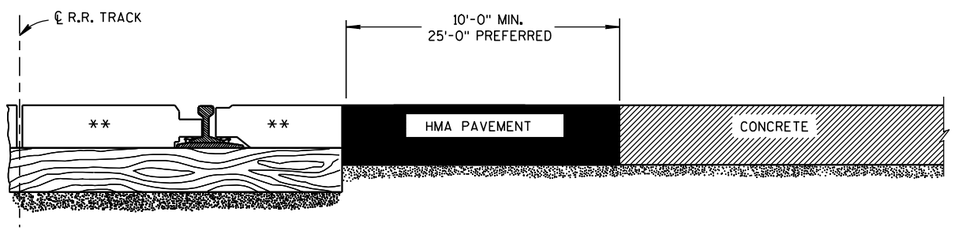
HMA PAVEMENT SHALL BE ROLLED PARALLEL TO THE TRACK.

** CROSSING SURFACE MAY BE TIMBER, RUBBER, CONCRETE, HMA PAVEMENT OR A COMBINATION OF SUCH MATERIALS.

*** CROWN TRANSITION LENGTH SHOWN ELSEWHERE IN THE PLAN.



TYPICAL HALF SECTION



SECTION A-A

CONCRETE PAVEMENT APPROACH



SECTION A-A

HMA PAVEMENT APPROACH

EXAMPLES OF PAVEMENT APPROACHES

PAVEMENT DETAILS FOR RAILROAD APPROACH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

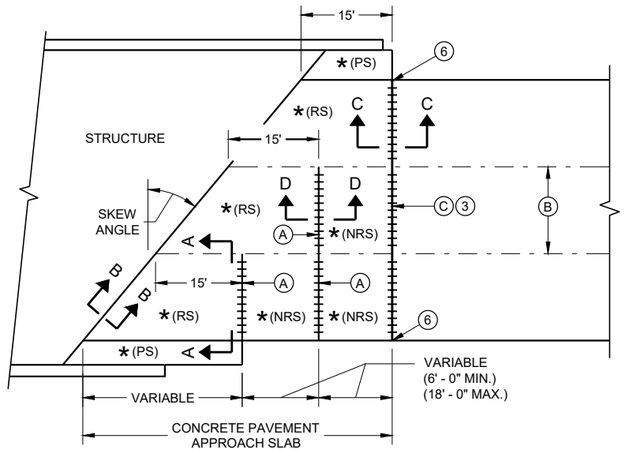
APPROVED
8-28-09 DATE
/S/ Ronald E. Adams
CHIEF, RAILROADS & HARBORS SECTION
FHWA

6

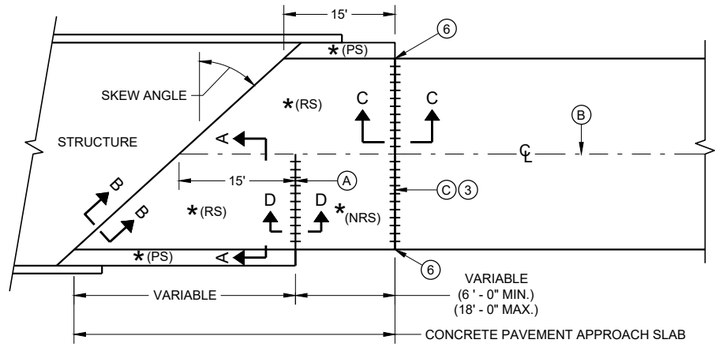
S.D.D. 13 B 1-10

6

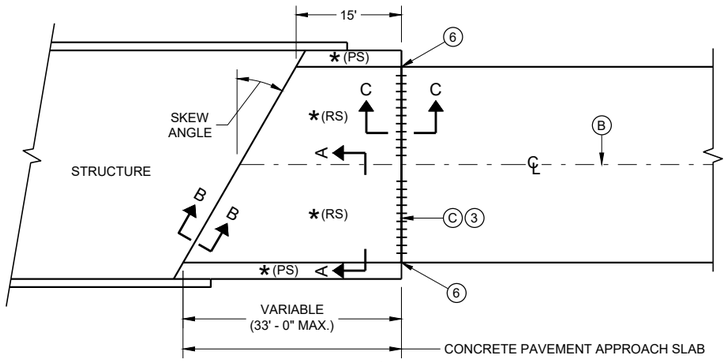
S.D.D. 13 B 1-10



SKEWED APPROACH
(PAVEMENT MORE THAN TWO LANES)



SKEWS > 20°
(PAVEMENT WIDTH ≤ 30')



SKEWS ≤ 20°
(PAVEMENT WIDTH ≤ 30')

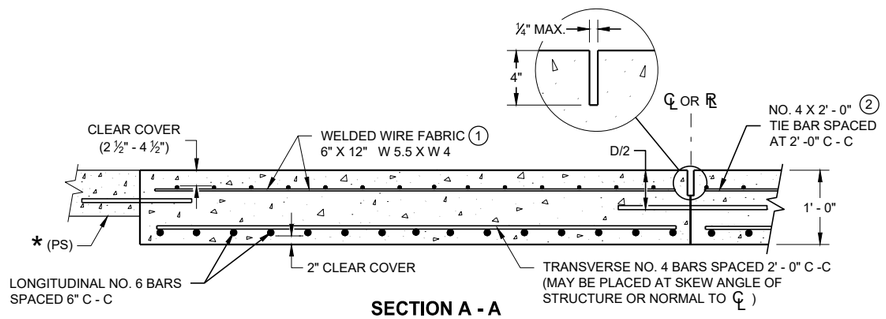
APPROACH SLAB AND ADJACENT PAVEMENT

* (RS) = REINFORCED CONCRETE SLAB

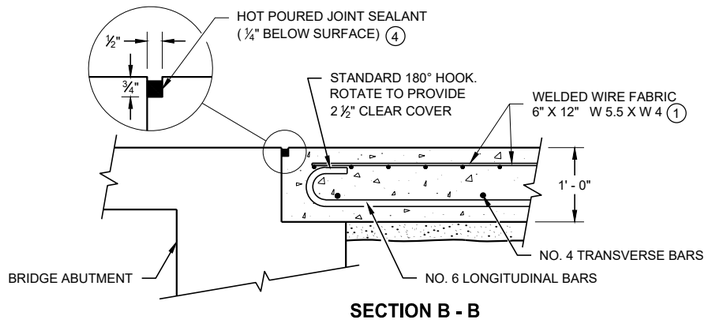
* (PS) = PAVED CONCRETE SHOULDER OR CONCRETE DRAINAGE SLAB

* (NRS) - NON - REINFORCED CONCRETE SLAB

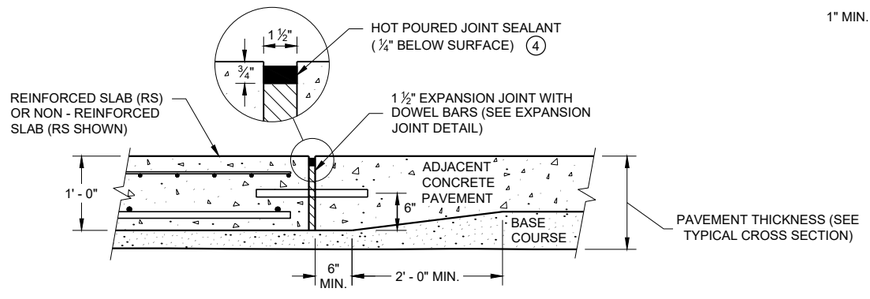
*** STANDARD DOWEL BAR DIAMETER (SEE SDD 13C11 AND SDD 13C13)



SECTION A - A
REINFORCEMENT POSITIONING DETAIL



SECTION B - B
BEND DETAIL
BOTTOM REINFORCEMENT



SECTION C - C
TRANSITION DETAIL
APPROACH SLAB TO ADJACENT PAVEMENT

GENERAL NOTES

THE CONTRACTOR MAY SPLICE NO. 6 BARS IN THE APPROACH SLAB FOR SKEWED STRUCTURES ONLY. STAGGER SPLICES WITH A MAXIMUM OF ONE SPLICE PER BAR. THE LENGTH OF LAP IS 20 INCHES.

TACK WELD DOWEL BARS TO THE BASKETS ON ALTERNATE ENDS.

(1) THE CONTRACTOR MAY USE NO. 4 BARS SPACED AT 2' - 0 " C - C IN BOTH THE LONGITUDINAL AND TRANSVERSE DIRECTIONS FOR TOP REINFORCEMENT AS AN ALTERNATIVE TO THE WELDED WIRE FABRIC.

(2) THE CONTRACTOR MAY OMIT THE BARS BETWEEN REINFORCED SLABS WHERE SLAB REINFORCEMENT BARS EXTEND ACROSS THE CENTERLINE OR REFERENCE LINE.

(3) DO NOT CONSTRUCT AN EXPANSION JOINT OR INSTALL DOWEL BARS WHEN ABUTTING AN HMA PAVEMENT.

(4) USE A JOINT SEALANT CONFORMING TO STANDARD SPECIFICATION 415.2.6.

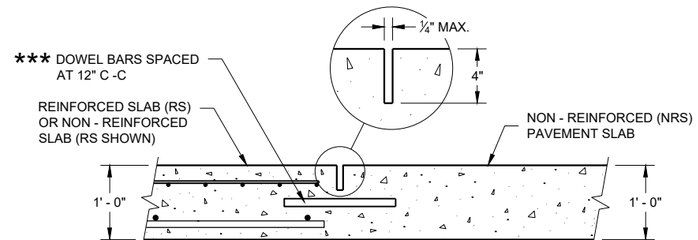
(5) PLACE EXPANSION CAP ON THE END OF THE DOWEL THAT IS NOT TACK WELDED TO THE BASKET. DO NOT FORCE DOWEL BAR PAST THE DOWEL STOP.

(6) EXTEND EXPANSION JOINT THROUGH ANY ADJACENT TIED CONCRETE.

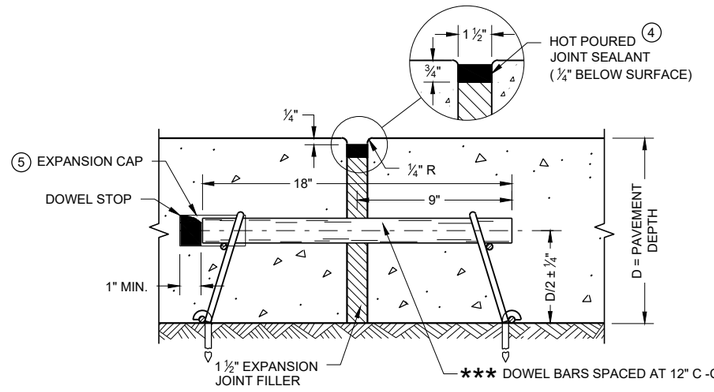
(A) STANDARD CONTRACTION JOINT NORMAL TO ℄ OR ℞.

(B) STANDARD LONGITUDINAL JOINT WITH TIE BARS.

(C) 1 ½" EXPANSION JOINT WITH DOWEL BARS NORMAL TO ℄ OR ℞ .



SECTION D - D
CONTRACTION JOINT



EXPANSION JOINT DETAIL

CONCRETE PAVEMENT APPROACH SLAB

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Peter Kemp, P.E.
PAVEMENT SUPERVISOR

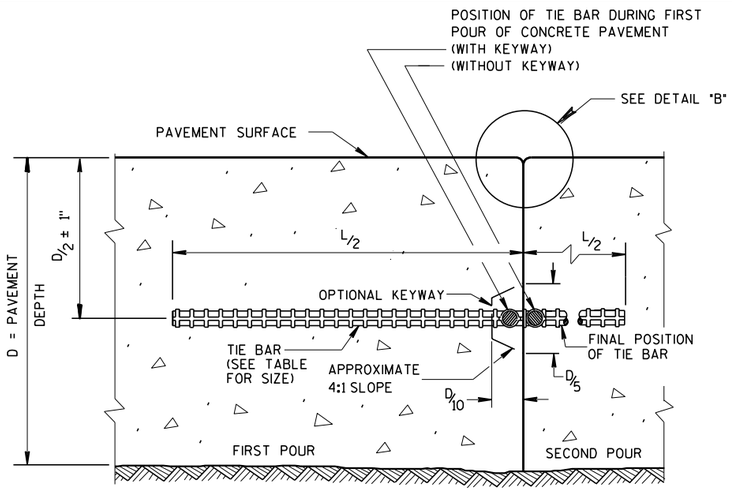
FHWA

6

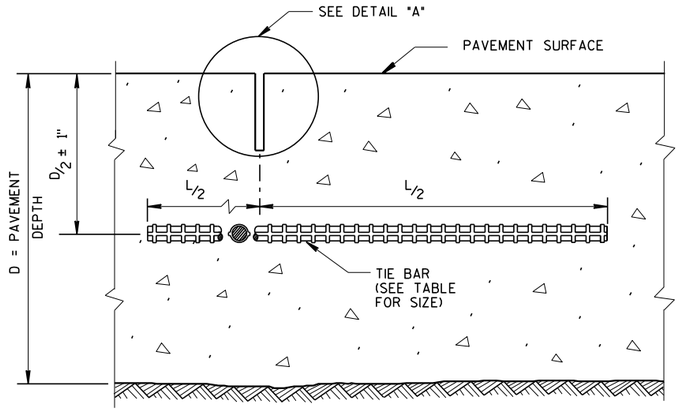
SDD 13B02 - 09a

6

SDD 13B02 - 09a



CONSTRUCTION JOINT



SAWED JOINT

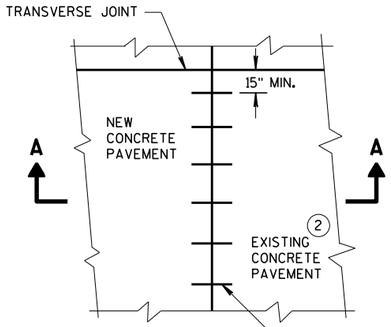
GENERAL NOTES

CREATE A LONGITUDINAL JOINT FOR PAVEMENT WIDTHS GREATER THAN 15 FEET.

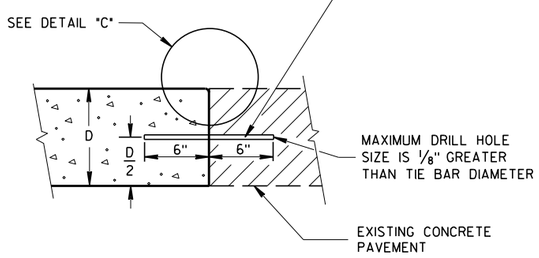
CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

(1) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

(2) PAVEMENT THAT WAS IN PLACE PRIOR TO THE CONTRACT.

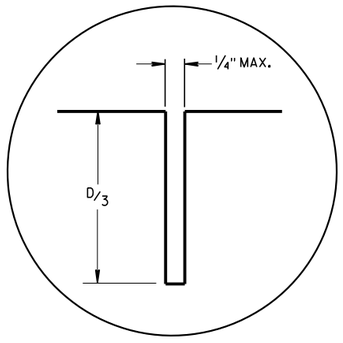


PLAN VIEW

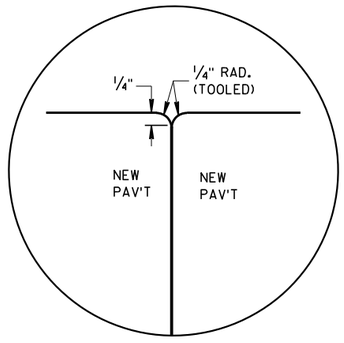


SECTION A-A

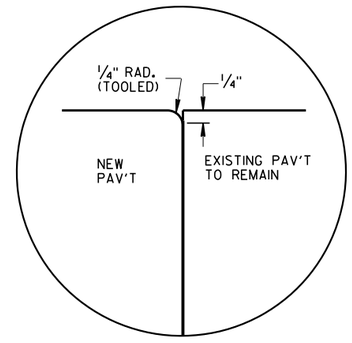
LONGITUDINAL CONSTRUCTION JOINT TIE BARS ANCHORED INTO EXISTING PAVEMENT



DETAIL "A"



DETAIL "B"



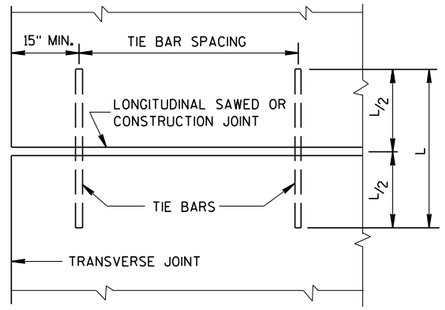
DETAIL "C"

TIE BAR TABLE

PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 1/2"	NO. 4	30"	36"
≥ 10 1/2"	NO. 5	36"	36"
	NO. 4 *	30"	24" **

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

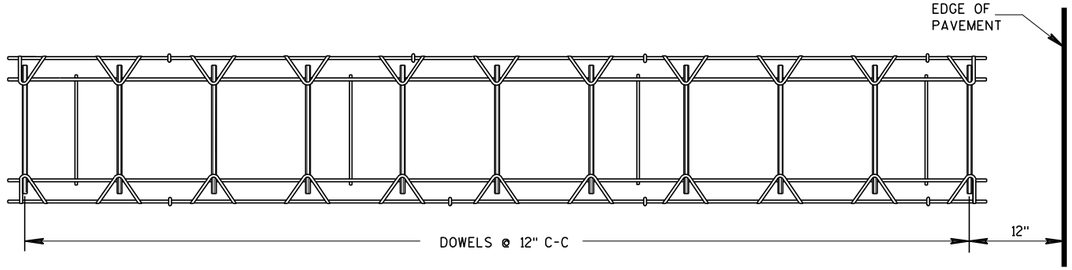


PLAN VIEW
SHOWING LOCATION OF TIE BARS

CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018 — DATE
/S/ Peter Kemp, P.E. — PAVEMENT SUPERVISOR
FHWA

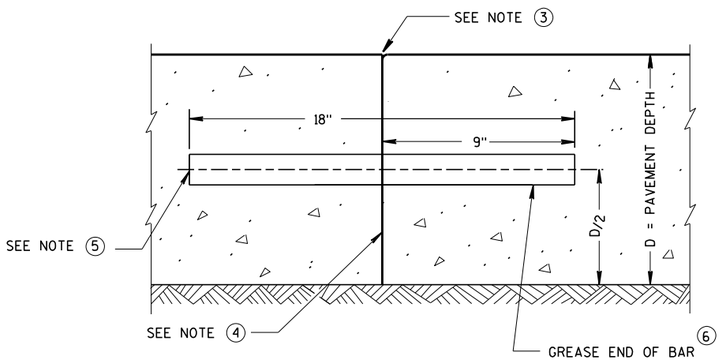


PLAN VIEW

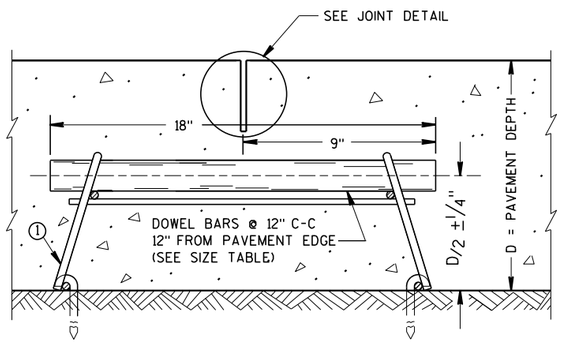


SIDE VIEW

CONTRACTION JOINT DOWEL ASSEMBLY ①



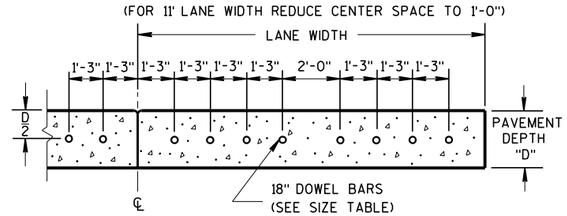
TRANSVERSE CONSTRUCTION JOINT



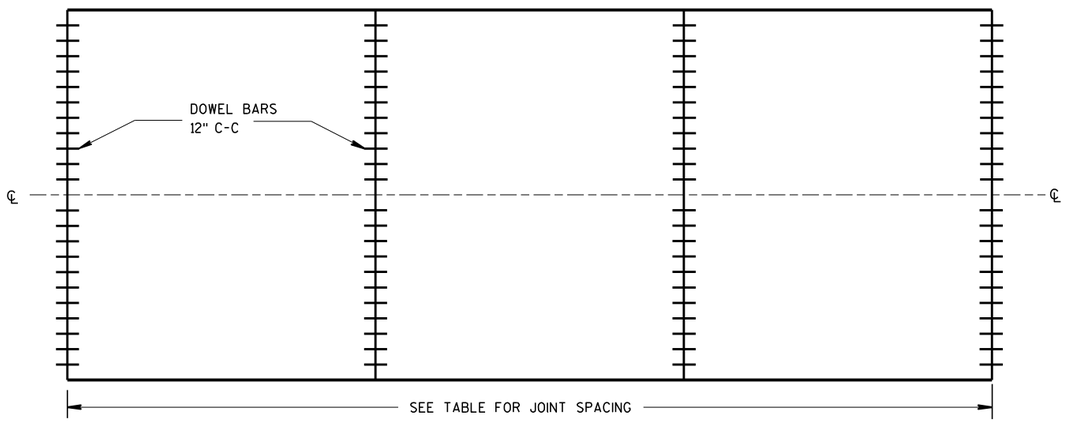
DOWELED CONTRACTION JOINT

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
5 ½", 6", 6 ½"	NONE	12'
7", 7 ½"	1"	14'
8", 8 ½"	1 ¼"	15'
9", 9 ½"	1 ¼"	15'
10" & ABOVE	1 ½"	15'



DRILLED DOWEL BAR CONSTRUCTION JOINT ⑦



CONTRACTION JOINT LOCATIONS

GENERAL NOTES

CONTRACTION JOINTS

CONSTRUCT TRANSVERSE CONTRACTION JOINTS NORMAL TO THE CENTERLINE. SHOW THE LOCATION OF CONTRACTION JOINTS THROUGH INTERSECTIONS ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

FOR PAVEMENT SLABS OF VARYING WIDTHS, LOCATE THE OUTER MOST DOWEL BAR SO THAT THE CENTER OF THE BAR IS A MINIMUM OF 6 INCHES AND A MAXIMUM OF 18 INCHES FROM THE LONGITUDINAL JOINT AND THE FREE EDGE OF PAVEMENT.

CONSTRUCTION JOINTS

LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.

① OBTAIN THE ENGINEER'S APPROVAL FOR THE USE OF ALTERNATIVE DESIGNS OF THE DOWEL ASSEMBLY. USE MECHANICAL DOWEL BAR INSERTERS OR DOWEL ASSEMBLIES WHEN CONSTRUCTING CONTRACTION JOINTS.

② SECURE BASKETS WITH ANCHORS TO HOLD DOWEL BARS IN THE CORRECT POSITION AND ALIGNMENT. TYPE, LOCATION, NUMBER AND LENGTH OF ANCHORS ARE DEPENDENT UPON FIELD CONDITIONS.

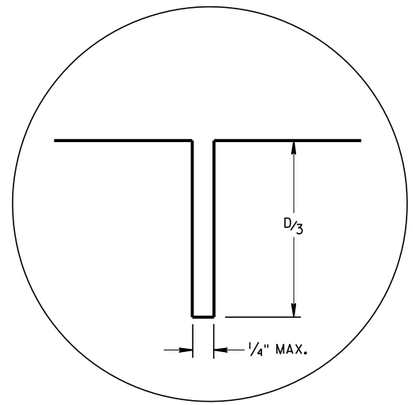
③ FORM OR SAW CONSTRUCTION JOINTS. PROVIDE A ¼-INCH RADIUS AT FORMED JOINTS.

④ PROVIDE A SMOOTH VERTICAL FACE FOR THE ENTIRE DEPTH OF THE PAVEMENT WHEN FORMING CONSTRUCTION JOINTS.

⑤ INSTALL DOWEL BARS AT CONSTRUCTION JOINTS BY FORMING OR DRILLING. INSTALL FORMED DOWEL BARS 12 INCHES C-C AND 12 INCHES FROM PAVEMENT EDGE. REMOVE EXCESS CONCRETE FROM THE FREE END OF THE DOWEL BAR IF DOWEL BARS ARE FORMED THROUGH A HEADER BOARD. INSTALL DRILLED DOWEL BARS ACCORDING TO *DRILLED DOWEL BAR CONSTRUCTION JOINT* DETAIL.

⑥ APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.

⑦ ANCHOR DOWEL BARS INTO DRILLED HOLES WITH AN EPOXY. MAXIMUM DRILLED HOLE SIZE IS ⅛-INCH GREATER THAN DOWEL BAR DIAMETER, 9 INCHES IN LENGTH.



JOINT DETAIL

URBAN DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018 — DATE
/S/ Peter Kemp, P.E. — PAVEMENT SUPERVISOR
FHWA

6

S.D.D. 13 C 13-9

6

S.D.D. 13 C 13-9

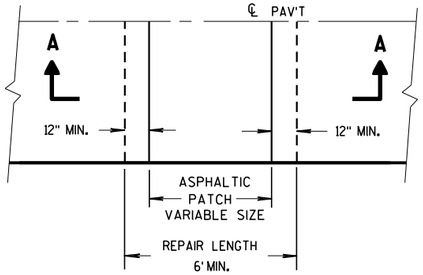
GENERAL NOTES

SAW CUT, DRILL, AND LIFT OUT EXISTING CONCRETE PAVEMENT WITHIN THE BOUNDARIES OF CONCRETE REPAIR AREAS. THE CONTRACTOR MAY MAKE ADDITIONAL SAW CUTS INSIDE THE REPAIR LIMITS TO REDUCE WEIGHT AND SIZE OF CONCRETE PIECES.

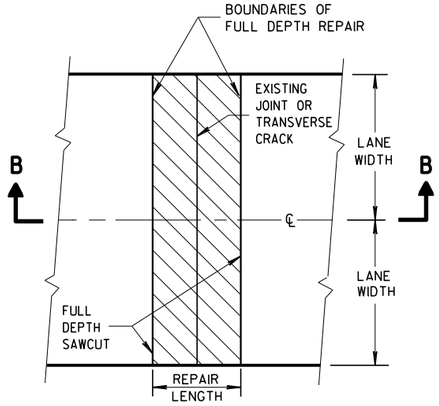
PROVIDE 6-FOOT MINIMUM DISTANCE FROM BOUNDARIES OF CONCRETE REPAIR AREAS TO ADJACENT TRANSVERSE JOINT OR CRACK.

THE LENGTH OF THE REPAIRS MAY VARY FROM THE DIMENSIONS SHOWN IF THE EXISTING CONCRETE PAVEMENT IS NONDOWELED AND THE PAVEMENT IS TO BE OVERLAID AFTER REPAIRING.

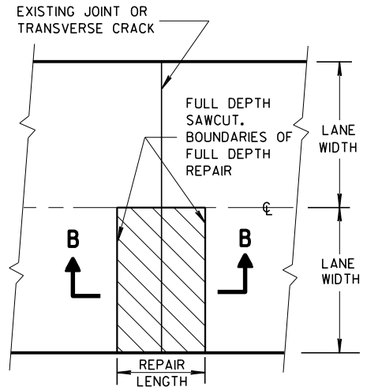
(1) DOWEL BARS MIGHT NOT EXIST.



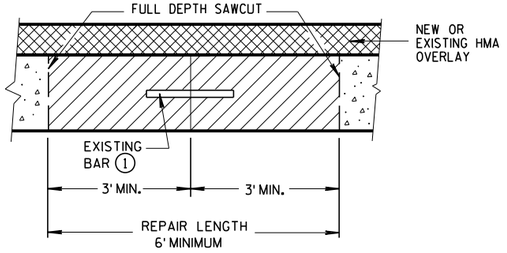
PLAN VIEW



PLAN VIEW
(DOUBLE LANE REPAIR)



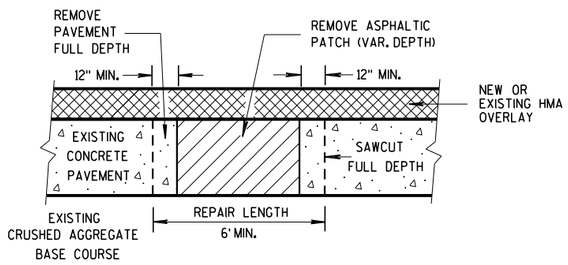
PLAN VIEW
(SINGLE LANE REPAIR)



SECTION B-B

CONCRETE REMOVAL

FULL DEPTH CONCRETE PAVEMENT REMOVAL



SECTION A-A

HMA PATCH REMOVAL

BASE PATCHING CONCRETE

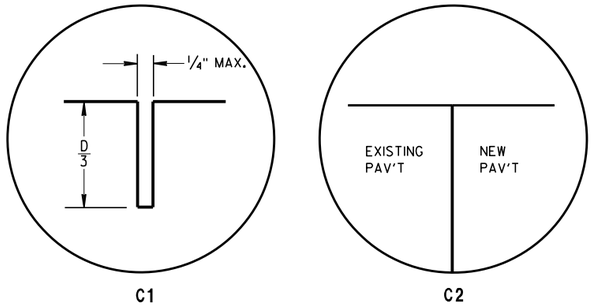
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

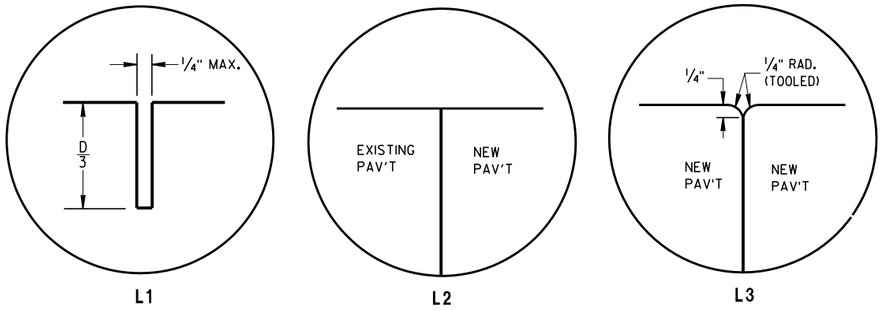
S.D.D. 13 C 14-7a

6

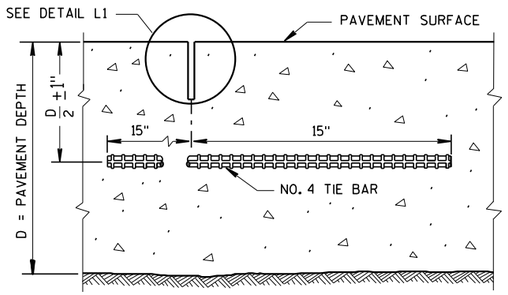
S.D.D. 13 C 14-7a



TRANSVERSE JOINTS

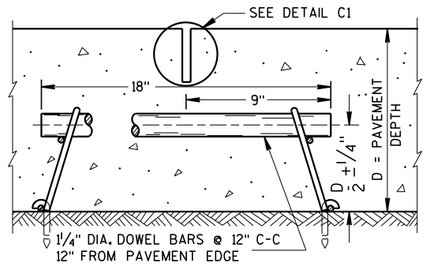


LONGITUDINAL JOINTS



SECTION C-C

SAWED LONGITUDINAL JOINT



SECTION F-F

CONTRACTION JOINT

GENERAL NOTES

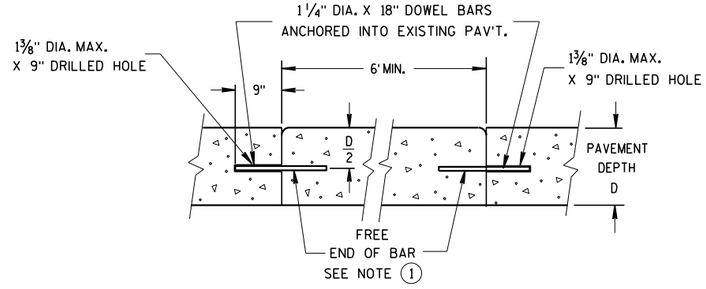
INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

CONCRETE BASE PATCHES OF EXISTING NONDOWELED CONCRETE PAVEMENTS DO NOT NEED TO BE DOWELED.

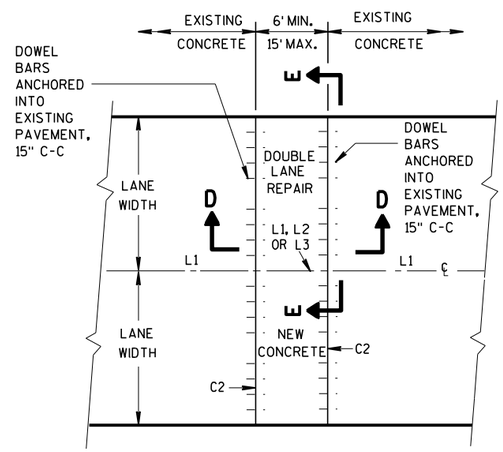
ANCHOR DOWEL BARS AND TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

PROVIDE A MINIMUM DISTANCE OF 15 INCHES FROM AN EXISTING TRANSVERSE JOINT OR THE EDGE OF REPLACEMENT TO THE CENTER OF THE TIE BAR NEAREST THAT JOINT OR EDGE.

(1) APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.

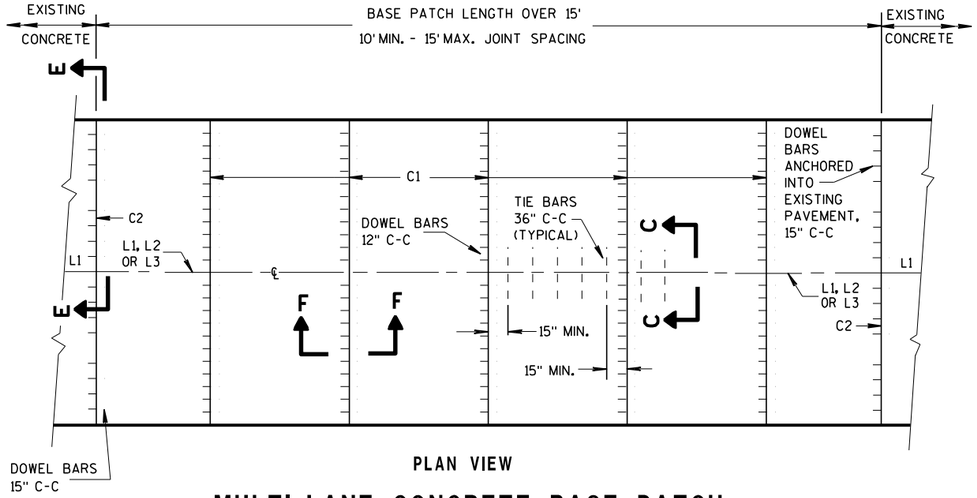


SECTION D-D



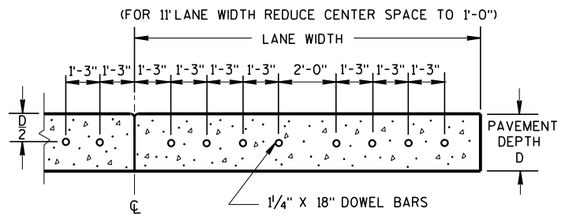
PLAN VIEW

MULTI-LANE CONCRETE BASE PATCH 15' MAXIMUM LENGTH



PLAN VIEW

MULTI-LANE CONCRETE BASE PATCH GREATER THAN 15' IN LENGTH



SECTION E-E

SPACING OF DOWEL BARS ANCHORED INTO EXISTING PAVEMENT

BASE PATCHING CONCRETE

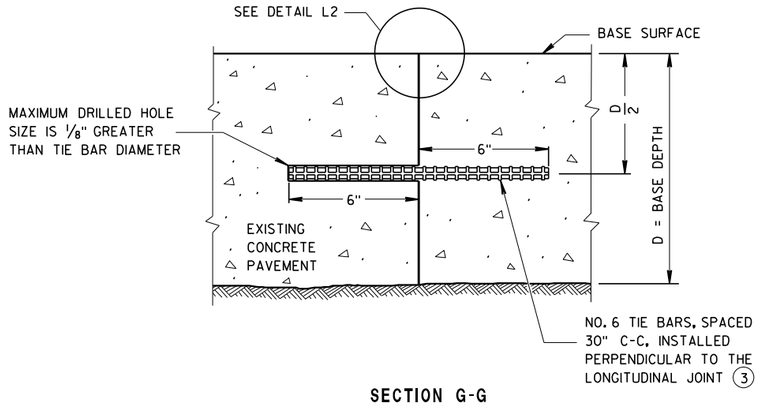
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 13 C 14-7b

6

S.D.D. 13 C 14-7b



SECTION G-G

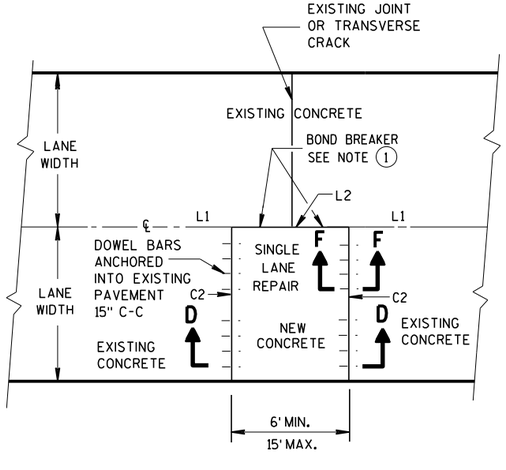
TIE BARS ANCHORED INTO EXISTING PAVEMENT

GENERAL NOTES

(1) USE AN ENGINEER-APPROVED BOND BREAKER (E.G. RELEASE AGENT, CURING COMPOUND) FOR SINGLE LANE BASE PATCHES UP TO 15 FEET IN LENGTH.

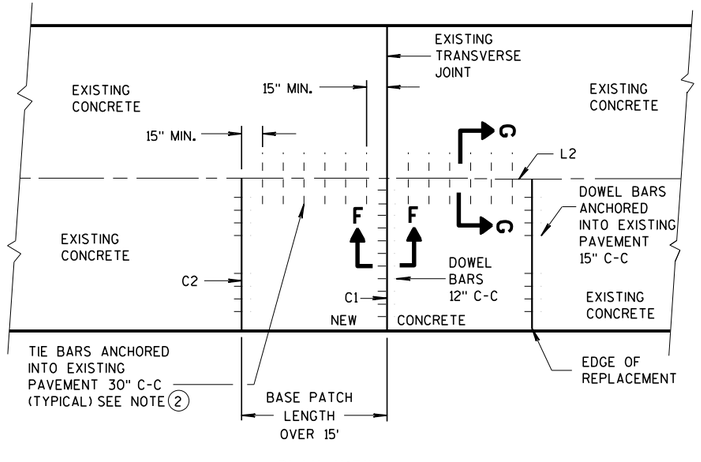
(2) WITH THE APPROVAL OF THE ENGINEER, FOR SINGLE LANE PAVEMENT REPLACEMENTS LESS THAN 30 FEET IN LENGTH, DRILLED TIE BARS MAY BE INSTALLED ON 6:1 SKEW HORIZONTALLY, DIRECTION OF SKEW ALTERNATING WITH EACH SUCCESSIVE BAR. DRIVE SKEWED TIE BARS TO A DEPTH OF 6 INCHES IN A HOLE OF SUCH A DIAMETER AS TO PROVIDE A TIGHT DRIVEN FIT.

(3) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.



PLAN VIEW

SINGLE LANE CONCRETE BASE PATCH 15' MAXIMUM LENGTH



PLAN VIEW

SINGLE LANE CONCRETE BASE PATCH GREATER THAN 15' IN LENGTH

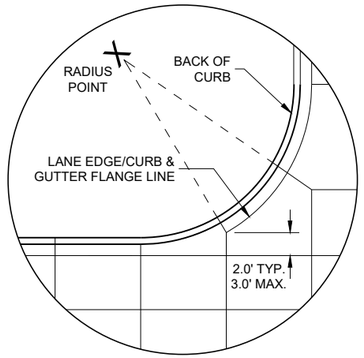
BASE PATCHING CONCRETE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

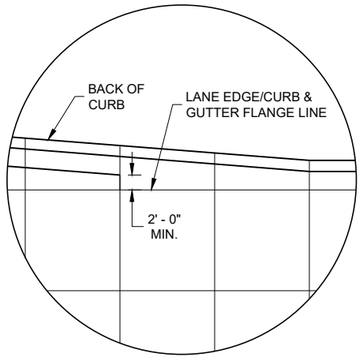
APPROVED
March 2018 — DATE
/S/ Peter Kemp, P.E. — PAVEMENT SUPERVISOR
FHWA

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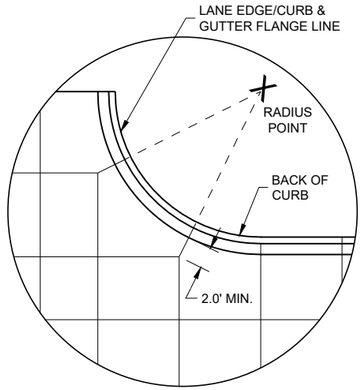
S.D.D. 13 C 14-7c



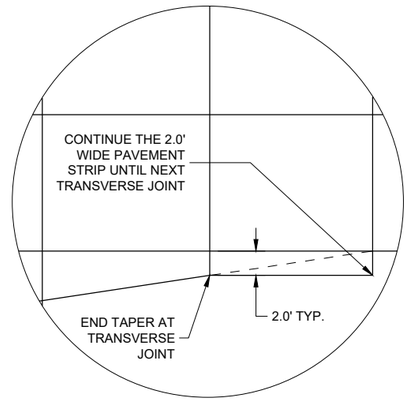
DETAIL "A"



DETAIL "B"



DETAIL "C"



DETAIL "D"

GENERAL NOTES

THE PRIMARY ROADWAY CONTROLS THE TRANSVERSE JOINT PATTERN.

ALIGN NEW JOINTS WITH EXISTING JOINTS OR CRACKS.

CONSTRUCT TRANSVERSE JOINTS PERPENDICULAR TO THE ROADWAY.

ADJUST TRANSVERSE JOINTS TO ALIGN WITH UTILITY FIXTURES (E.G MANHOLES AND INLETS) IN THE PAVEMENT STRUCTURE WHEN POSSIBLE. WATER VALVES DO NOT REQUIRE JOINT ADJUSTMENT.

AVOID SLABS LESS THAN 2 FEET WIDE OR GREATER THAN 15 FEET WIDE.

SEE TABLE FOR TRANSVERSE JOINT SPACING. JOINT SPACING SPECIFIED IS MAXIMUM AND ACTUAL SPACING CAN BE ADJUSTED TO ACCOMMODATE INTERSECTIONS.

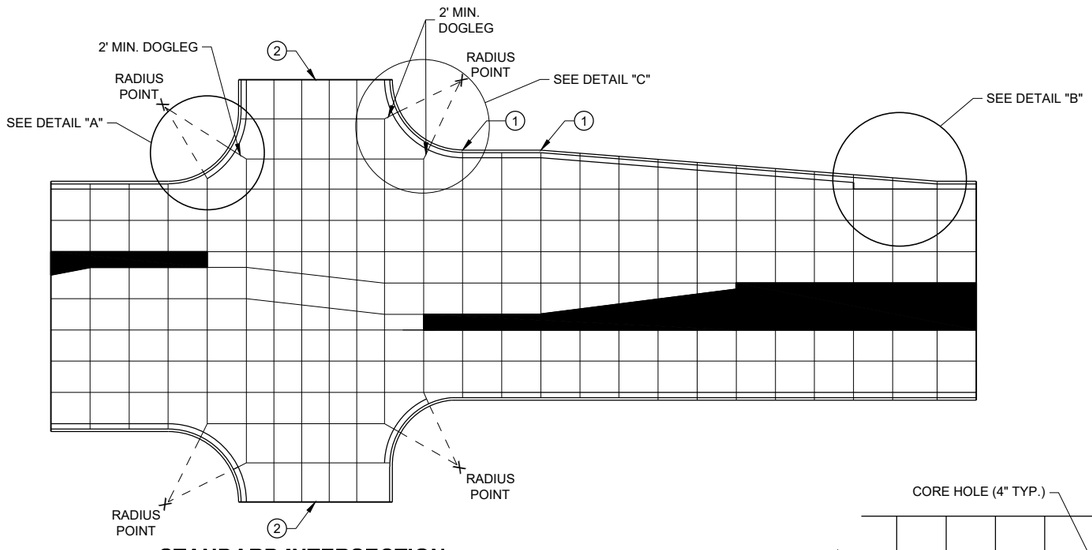
AVOID ANGLES LESS THAN 60° BY DOGLEGGING JOINTS THROUGH CURVE RADIUS POINTS. USE 90° ANGLES WHEN POSSIBLE.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

(1) PROVIDE TRANSVERSE JOINTS AT ALL PAVEMENT WIDTH CHANGES.

(2) CONSTRUCT DOWELED EXPANSION JOINT ON THE SIDE ROAD OF AN INTERSECTION IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH. ALIGN EXPANSION JOINT WITHEDGE OF RADIUS.

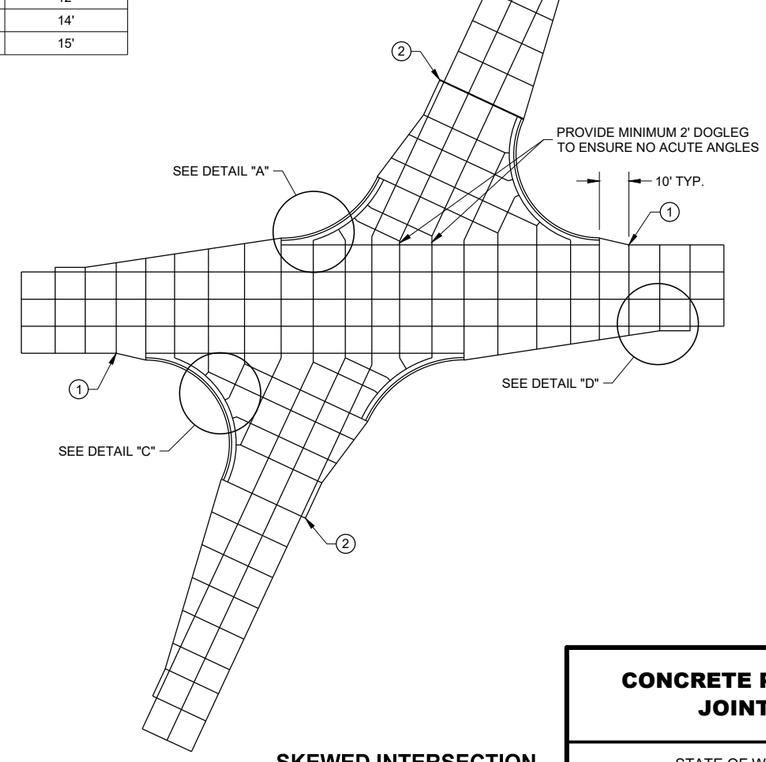
(3) THE ENGINEER MAY APPROVE SLIGHT VARIATIONS FROM THESE JOINTING DETAILS.



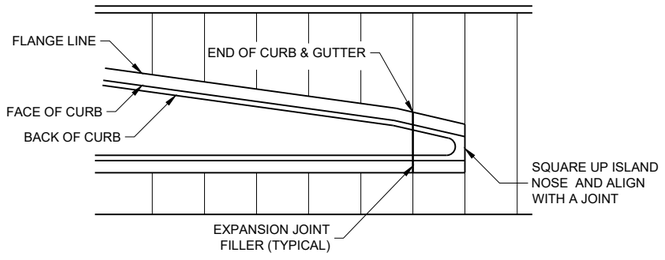
STANDARD INTERSECTION

PAVEMENT DEPTH AND JOINT SPACING TABLE

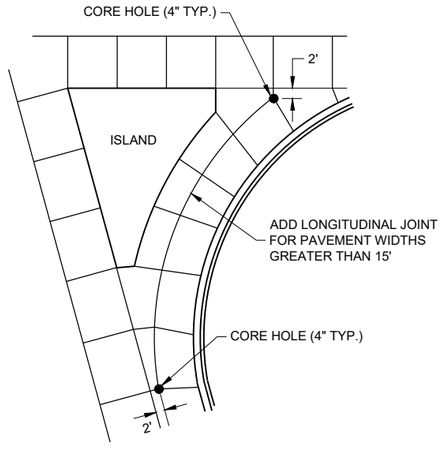
PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
6", 6 ½"	12'
7", 7 ½"	14'
8" & ABOVE	15'



SKEWED INTERSECTION



APPROACH TO MEDIAN



LARGE RIGHT TURN

CONCRETE PAVEMENT JOINTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 13C18 - 07a

6

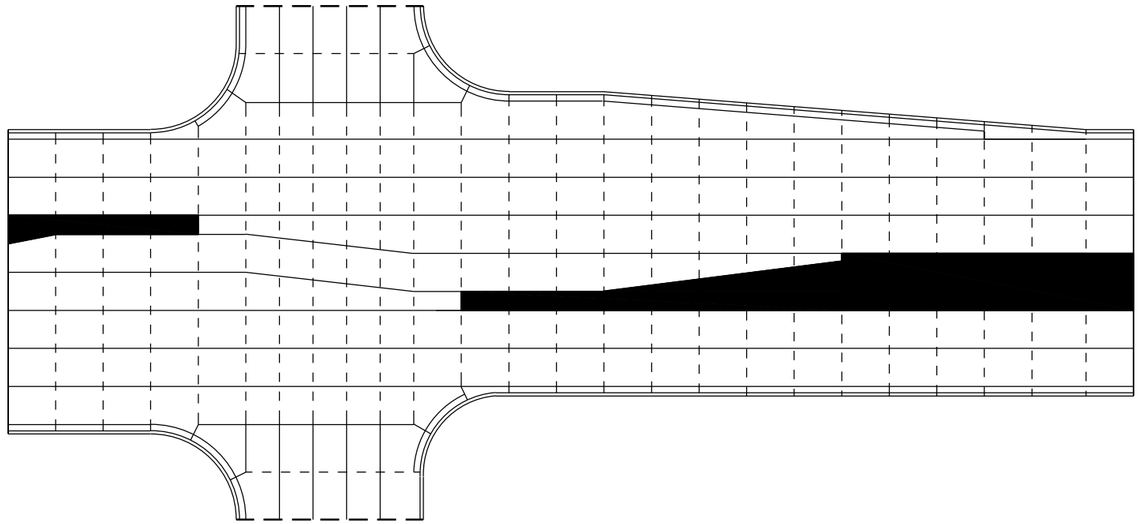
SDD 13C18 - 07a

LEGEND

POTENTIAL DOWELED EXPANSION JOINT

DOWELED JOINT

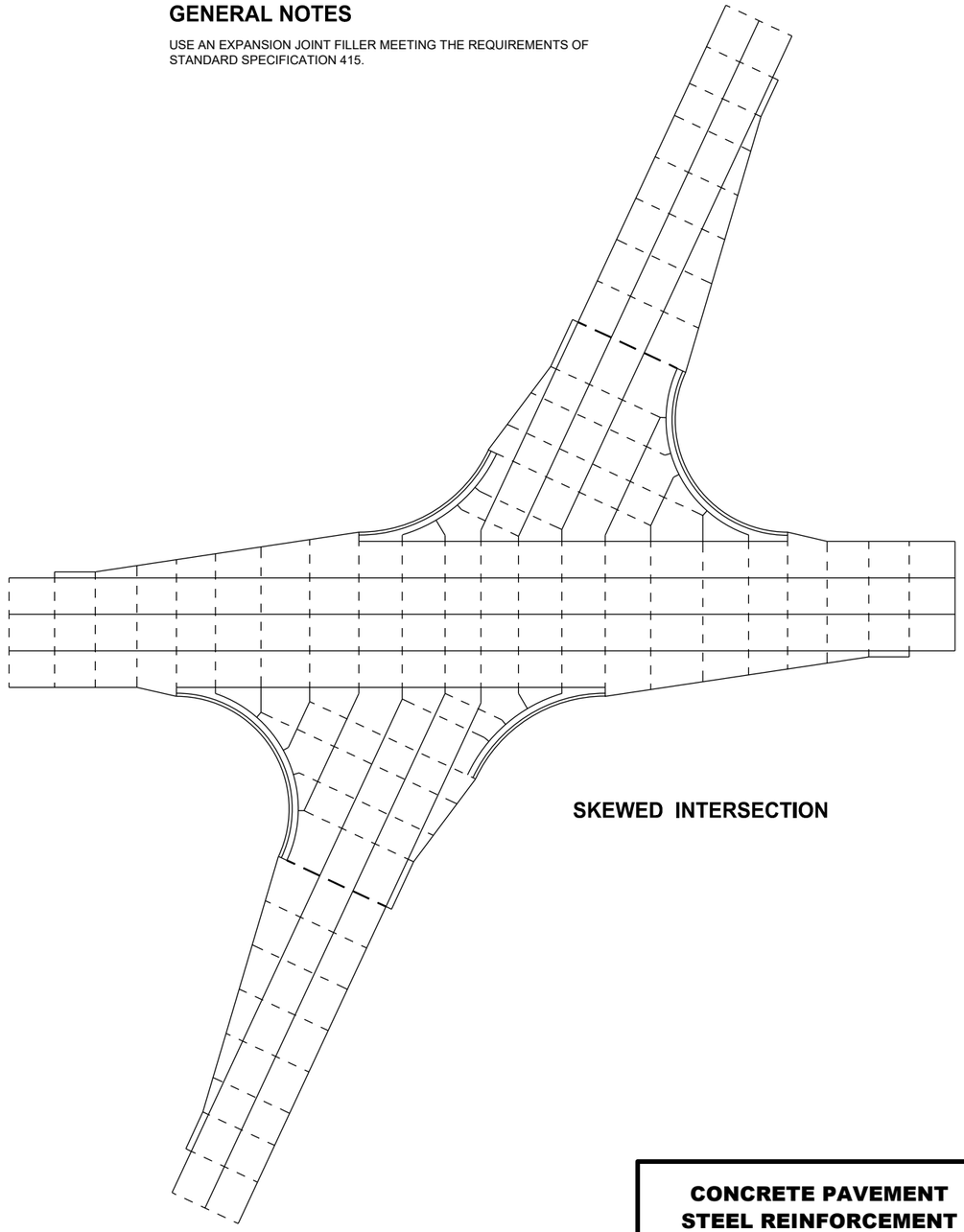
TIED JOINT



STANDARD INTERSECTION

GENERAL NOTES

USE AN EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION 415.



SKEWED INTERSECTION

6

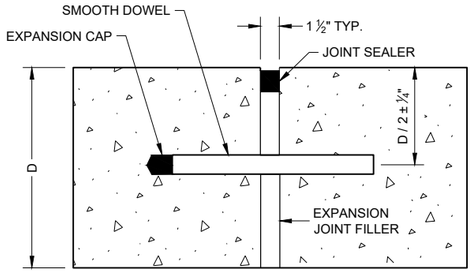
SDD 13C18 - 07b

CONCRETE PAVEMENT
STEEL REINFORCEMENT

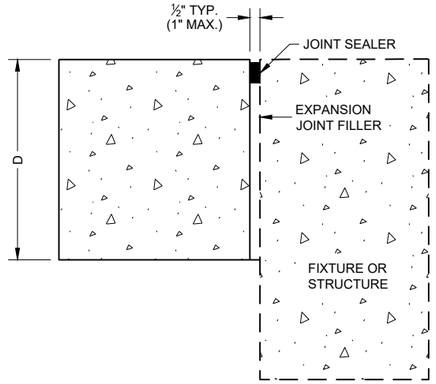
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 13C18 - 07b



DOWELED TRANSVERSE (1)



UNTIED - LONGITUDINAL

EXPANSION JOINTS

TIE BAR TABLE

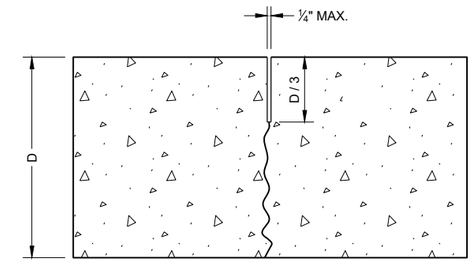
PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 ½"	NO. 4	30"	36"
≥ 10 ½"	NO. 5	36"	36"
	NO. 4 *	30"	24" **

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

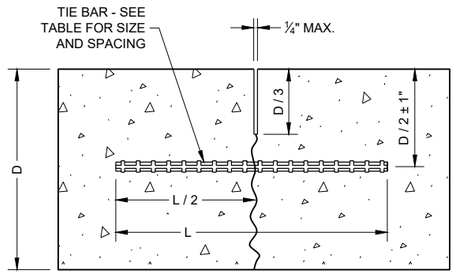
** CONFORM TO 15" MINIMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

GENERAL NOTES

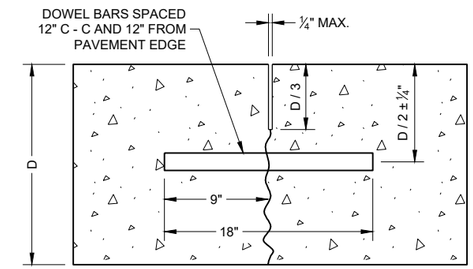
1. USE DOWELED EXPANSION JOINTS ON SIDE ROADS AT INTERSECTIONS (TO ISOLATETHE SIDE ROAD FROM THE THROUGH STREET) IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH.
2. SPACE CONTRACTION JOINTS IN ACCORDANCE WITH SDD 13C4, 13C11 OR 13C13.
3. LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.
4. CONSTRUCTION JOINTS CAN BE FORMED OR SAWED.
5. IF JOINT IS FORMED, PROVIDE A ¼" RADIUS.
6. ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.



UNDOWELED TRANSVERSE

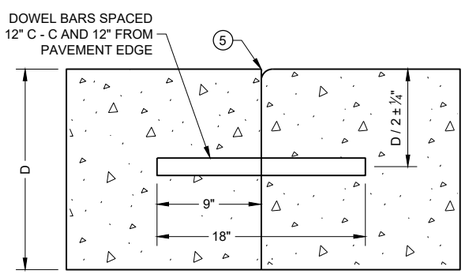


TIED LONGITUDINAL

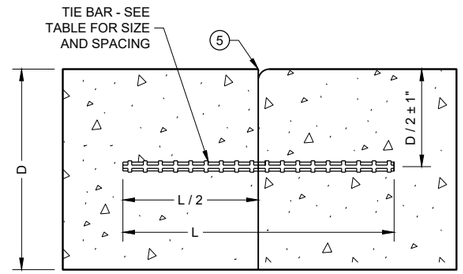


DOWELED TRANSVERSE

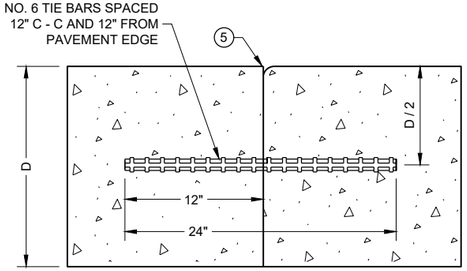
CONTRACTION JOINTS (2)



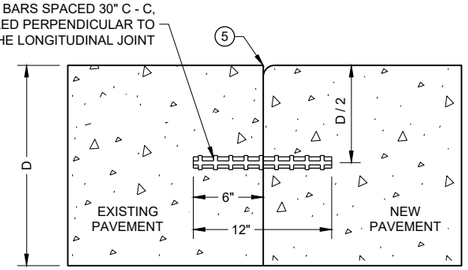
DOWELED TRANSVERSE (3)



TIED LONGITUDINAL



TIED TRANSVERSE (3)
(FOR USE ON NON-DOWELED PAVEMENTS ONLY)



TIED LONGITUDINAL TO EXISTING

CONSTRUCTION JOINTS (4)

CONCRETE PAVEMENT JOINT TYPES

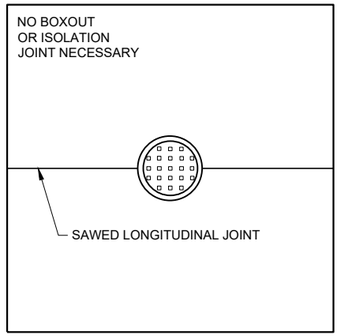
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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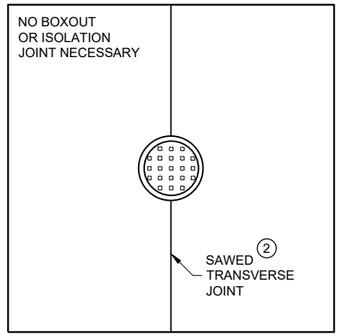
SDD 13C18 - 07c

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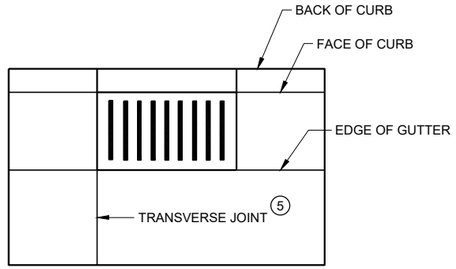
SDD 13C18 - 07c



MANHOLE WITH LONGITUDINAL JOINT



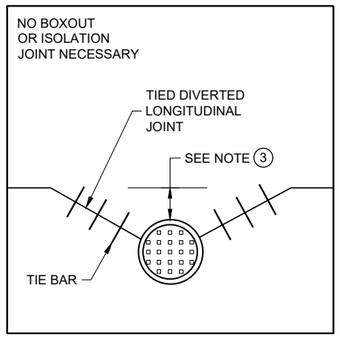
MANHOLE WITH TRANSVERSE JOINT



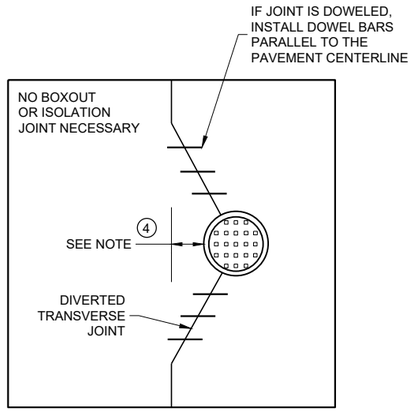
INLET WITH TRANSVERSE JOINT

GENERAL NOTES

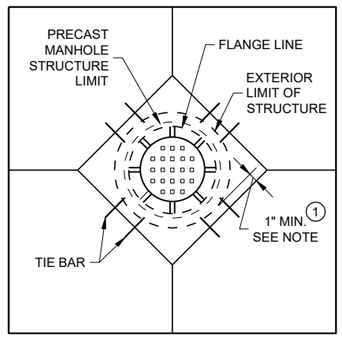
1. USE BOXOUTS WHEN UTILITY STRUCTURE IS IN THE PATH OF CONSTRUCTION JOINTS. PROVIDE A 1 FOOT MINIMUM CLEARANCE BETWEEN THE EXTERIOR LIMIT OF THE STRUCTURE TO THE DIAMOND BOXOUT.
2. ADJUST TRANSVERSE JOINT TO INTERSECT MANHOLE IF POSSIBLE.
3. IF DISTANCE BETWEEN THE LONGITUDINAL JOINT AND THE EDGE OF MANHOLE IS 2 FEET OR LESS, DIVERT THE LONGITUDINAL JOINT AT A 2:1 TAPER RATE TO THE CENTER OF THE MANHOLE. IF THE DISTANCE IS GREATER THAN 2 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REINFORCEMENT REBAR AROUND THE MANHOLE.
4. IF THE DISTANCE FROM THE EDGE OF THE MANHOLE TO THE NEAREST TRANSVERSE JOINT IS LESS 4 FEET OR LESS, REDIRECT JOINT TO INTERSECT THE CENTER OF THE MANHOLE. IF DISTANCE IS GREATER THAN 4 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REINFORCEMENT REBAR AROUND THE MANHOLE.
5. ALIGN TRANSVERSE JOINT WITH ONE EDGE OF INLET WHEN PRACTICAL.



MANHOLE WITH DIVERTED LONGITUDINAL CONTRACTION JOINT



MANHOLE WITH DIVERTED TRANSVERSE CONTRACTION JOINT



DIAGONAL MANHOLE BOXOUT FOR CONSTRUCTION JOINTS

CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

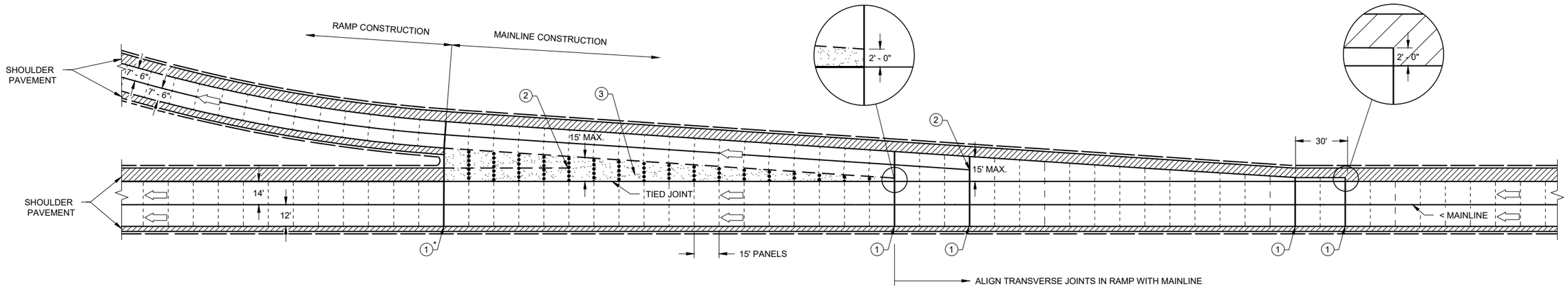
APPROVED
November 2018
DATE

/S/ Peter Kemp P.E.
PAVEMENT SUPERVISOR

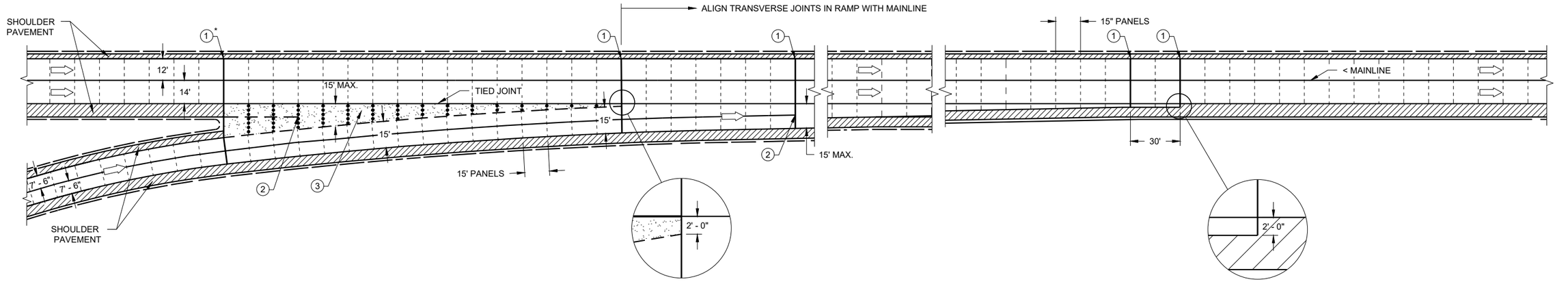
FHWA

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SDD13C18 - 07d



DECELERATION LANE



ACCELERATION LANE

GENERAL NOTES

PAVEMENT AND BASE THICKNESS, PANEL LENGTHS, JOINTS AND REINFORCEMENT FOR THE DECELERATION AND ACCELERATION LANES, INCLUDING TAPERS, SHALL BE THE SAME AS THE MAINLINE, EXCEPT WHERE OTHERWISE NOTED.

ALL REINFORCEMENT BARS SHALL BE EPOXY COATED CONFORMING TO SUBSECTION 505.2.6 OF THE STANDARD SPECIFICATIONS.

LANE AND SHOULDER WIDTHS MAY VARY FROM SHOWN. SEE CONSTRUCTION PLANS FOR ACTUAL PROPOSED WIDTHS.

(1) CRITICAL TRANSVERSE JOINT LOCATIONS AT PAVEMENT WIDTH CHANGES. ((1)* IS NOT A CRITICAL TRANSVERSE JOINT WHEN ASPHALTIC GORE IS INSTALLED).

(2) STOP LONGITUDINAL JOINT WITH CORE HOLE (2" TYP.) WHEN IT MEETS THE FIRST TRANSVERSE JOINT LESS THAN 15' WIDE OR STOP LONGITUDINAL JOINT WHEN IT MEETS 2' AWAY FROM THE TIED JOINT OF THE MAINLINE.

(3) DISREGARD THE JOINT DETAILS IN AND AROUND THE GORE WHEN ASPHALTIC GORE IS INSTALLED.

LEGEND

- DOWELED JOINT
- UNDOWELED JOINT
- TIED JOINT
- UNTIED JOINT
- GORE
- DIRECTION OF TRAVEL

CONCRETE PAVEMENT JOINTING ACCELERATION/ DECELERATION LANE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Peter Kemp P.E.
ROADWAY STANDARDS DEVELOPMENT ENGINEER

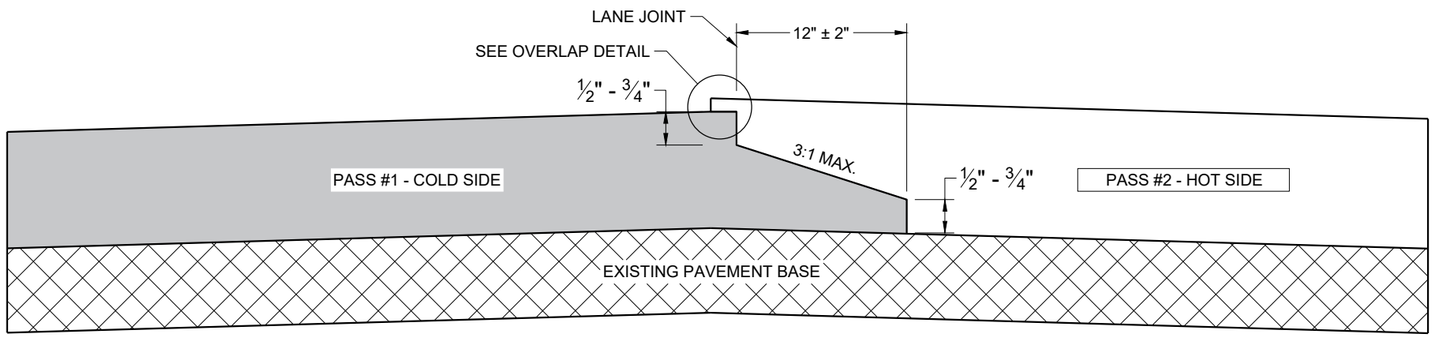
FHWA

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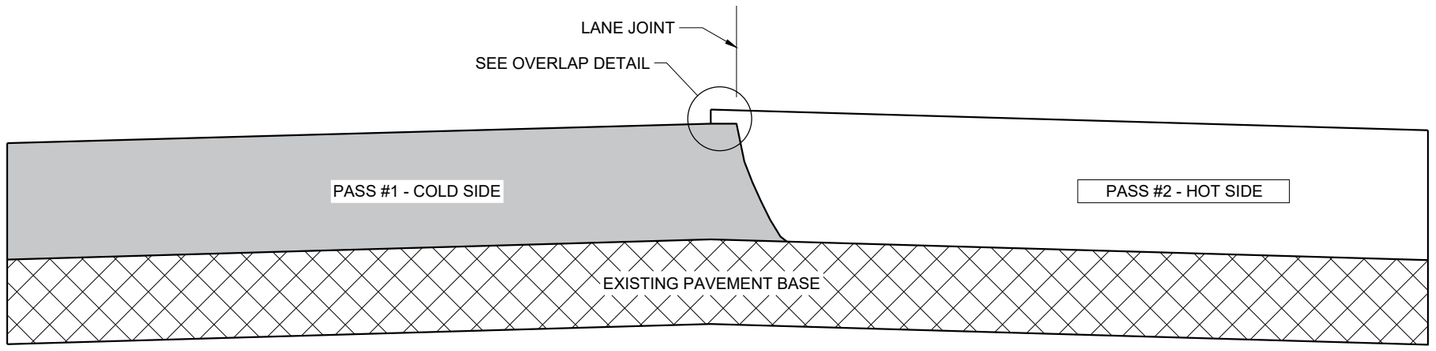
SDD13C18 - 07g

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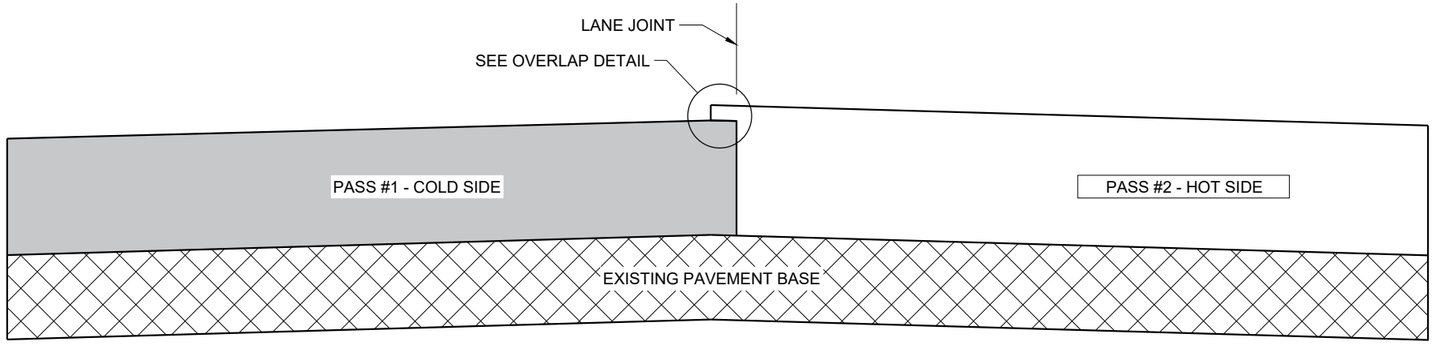
SDD13C18 - 07g



TYPICAL PAVEMENT CROSS SECTION
NOTCHED WEDGE JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT (MILLED)

GENERAL NOTES

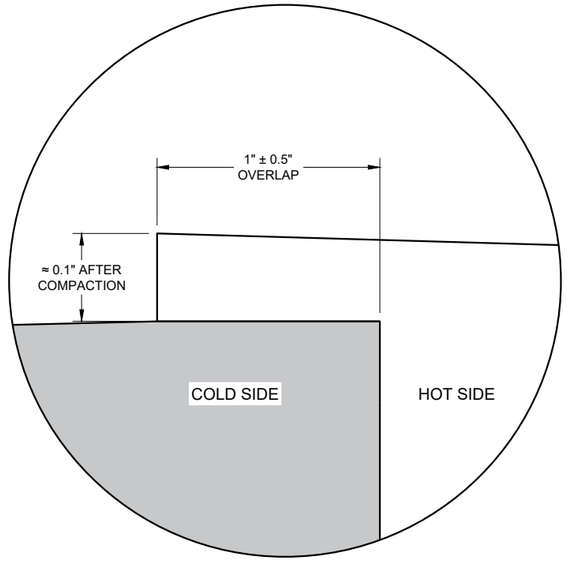
IN ADDITION TO THE DETAILS PROVIDED IN THIS DRAWING, CONFORM TO STANDARD SPECIFICATION 450.3.2.8 FOR WHEN A NOTCHED WEDGE JOINT IS REQUIRED AND FOR GENERAL JOINT CONSTRUCTION REQUIREMENTS.

FOR ALL LONGITUDINAL JOINTS, ENSURE THE PAVER SCREED OVERLAPS THE PREVIOUSLY PLACED PAVEMENT BY 1" ± 0.5" AND THE HOT SIDE OF THE JOINT REMAINS HIGHER THAN THE COLD SIDE BY APPROXIMATELY 0.1" AFTER FINAL COMPACTION. (IT WILL BE FLUSH WHEN PAVING IN ECHELON.)

ONLY REMOVE THE LONGITUDINAL NOTCHED WEDGE JOINT FOR SMA PAVEMENT OR AS DIRECTED BY THE ENGINEER TO ADDRESS SPECIFIC LENGTHS OF JOINT DAMAGED BY TRAFFIC.

WHEN MILLING BACK OR REMOVING ANY LONGITUDINAL JOINT, LIMIT THE MATERIAL REMOVED TO 2" FROM THE TOP NOTCH OR FROM THE VERTICAL JOINT EDGE ON THE COLD SIDE OF THE JOINT.

USE LONGITUDINAL MILLED JOINT AS PLANS SHOW OR THE AS THE ENGINEER DIRECTS.

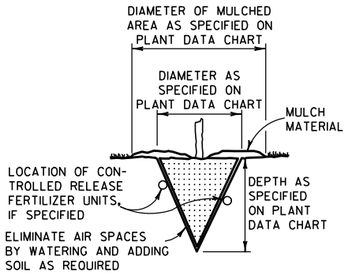


OVERLAP DETAIL (TYPICAL)

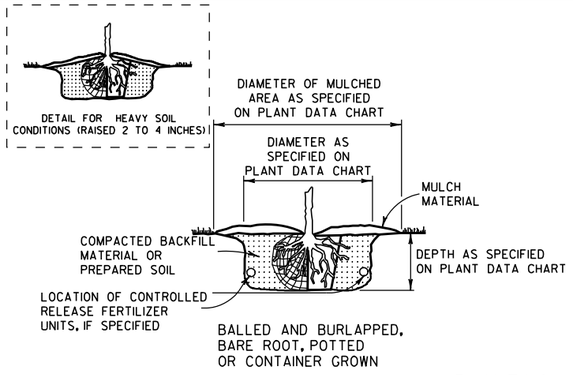
HMA LONGITUDINAL JOINTS	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED November 2020 DATE	/S/ Steven Hefel HMA PAVEMENT ENGINEER
FHWA	

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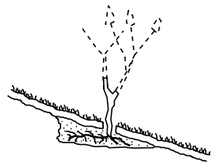
SDD 13C19 - 03



MACHINE MOVED

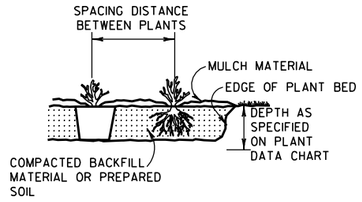


BALLED AND BURLAPPED, BARE ROOT, POTTED OR CONTAINER GROWN



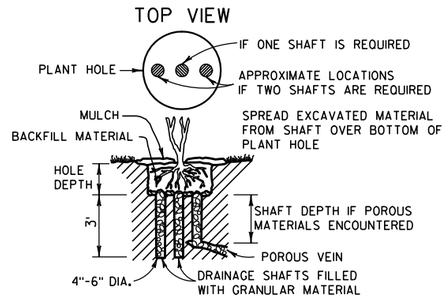
ACCOMMODATE ROOTS (SMOOTH AND STAGHORN SUMAC)

NOTE:
1) ENGINEER SHALL REQUIRE 3 SLITS IN POT TO SPEED DETERIORATION
2) METAL, PLASTIC OR OTHER NONDEGRADABLE POTS SHALL BE REMOVED PRIOR TO PLANTING



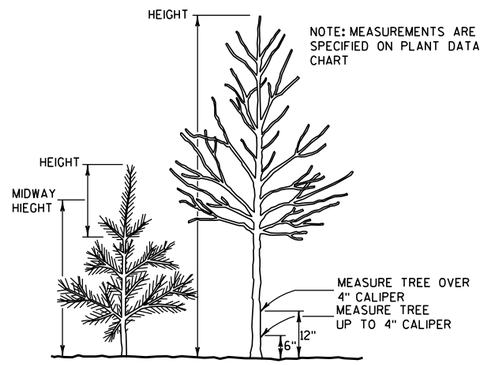
PREPARED BED (BARE ROOT AND POTTED)

PLANTING

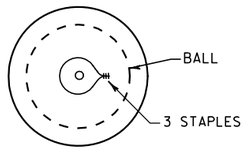


NOTE:
DRAINAGE SHAFT AS SPECIFIED ON PLANT DATA CHART

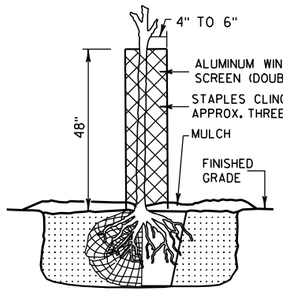
DRAINING



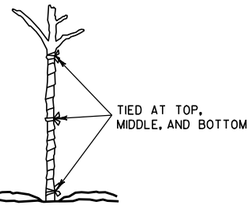
MEASURING



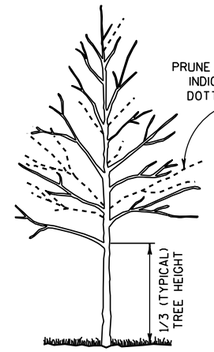
TOP VIEW



RODENT PROTECTION



WRAPPING



TALL DECIDUOUS TREES (ASH, MAPLE, LINDEN, OAK)

SINGLE STEMMED LOW DECIDUOUS TREES (CRABS AND OTHER SINGLE STEM TYPE)

MULTI-STEMMED LOW DECIDUOUS TREES OR LARGE SHRUBS (HAWTHORN, SERVICEBERRY)

NOTE: WHEN PRUNING, PRESERVE CHARACTER AND SHAPE OF TREE. AVOID LEAVING STUBS - REMOVE BRANCH OR TWIG BACK TO THE NEAREST CROTCH
1) PRUNE TO REMOVE DEAD AND BROKEN BRANCHES
2) PRUNE TO REMOVE BRANCHES THAT TOUCH OR ARE TOO CLOSE TO OTHER BRANCHES

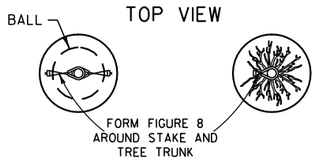


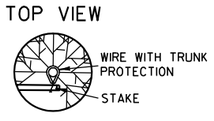
SHRUBS (GRAY DOGWOOD ARROWWOOD VIBURNUM)

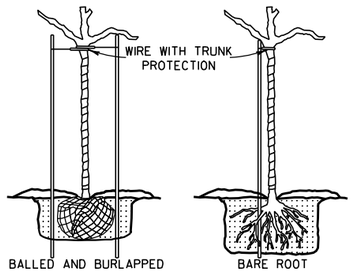
SUMAC

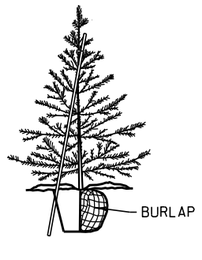
TREE TYPE EVERGREENS (PINE, SPRUCE, FIR) EVERGREENS USUALLY ARE NOT PRUNED

PRUNING



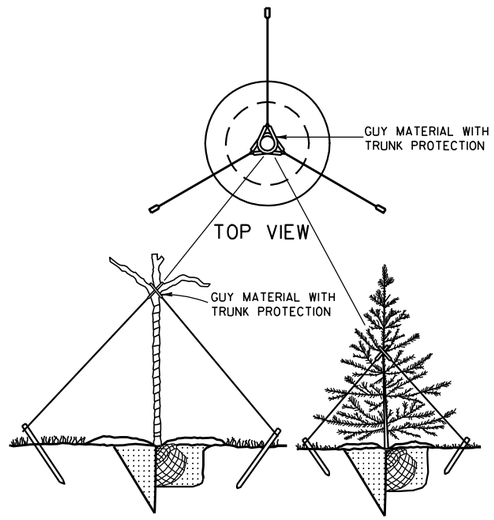






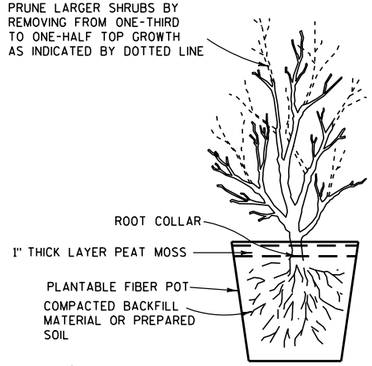
NOTE: BRACING STAKE
1) SHALL BE DRIVEN INTO THE GROUND AS CLOSE TO THE TREE AS POSSIBLE WITHOUT DAMAGING THE BRANCHES.
2) MAY BE DRIVEN AT SUCH AN ANGLE THAT IT DOES NOT PENETRATE THE BALL OR POT.
3) SHALL NOT PROTRUDE ABOVE THE TOP OF THE TREE; AND
4) SHALL HAVE A HOLE NEAR THE TOP TO HOLD THE WIRE IN PLACE.

BRACING



GUYING

PRUNE LARGER SHRUBS BY REMOVING FROM ONE-THIRD TO ONE-HALF TOP GROWTH AS INDICATED BY DOTTED LINE



POTTING

NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

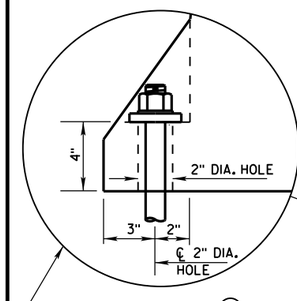
BRACING, WRAPPING, GUYING, RODENT PROTECTION, FERTILIZER AND MULCH SHALL BE USED ONLY WHEN SPECIFIED ON THE PLANT DATA CHART (PART OF PLAN) OR SPECIAL PROVISIONS.

TREE PLANTING DETAIL

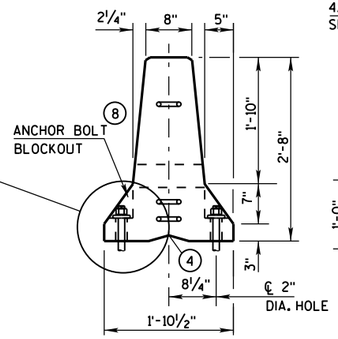
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4/11/94
DATE
/S/ Rory L. Rhinesmith
CHIEF METHODS DEVELOPMENT ENGINEER
FHWA

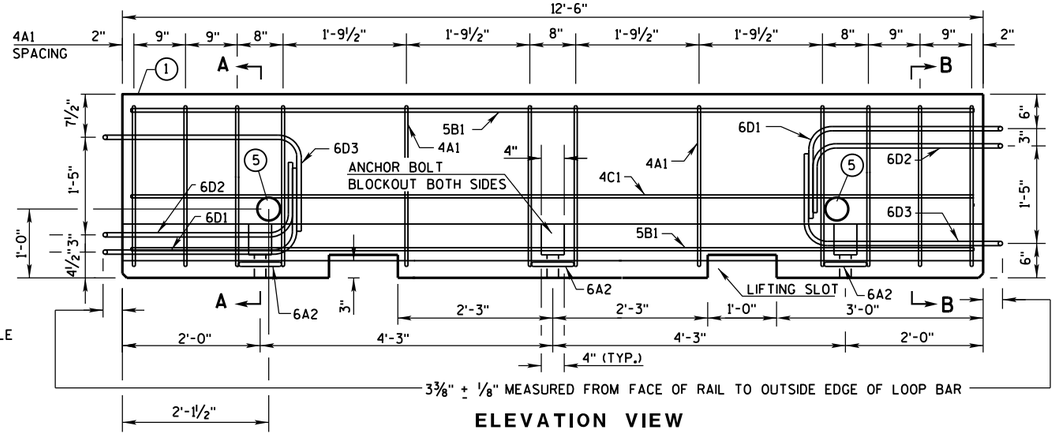
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S.D.D. 14 A 2-1
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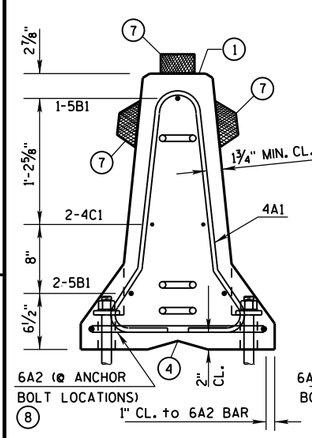
ANCHOR ON TRAFFIC SIDE (8) ONLY WHEN REQUIRED (SEE SHEET D FOR ADDITIONAL ANCHOR DETAIL)



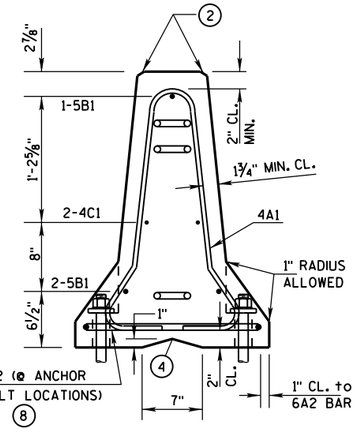
END VIEW



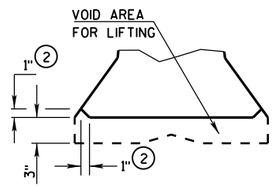
ELEVATION VIEW



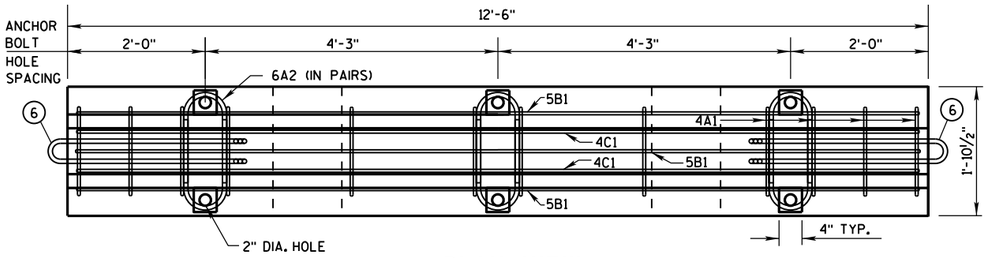
SECTION A-A
(STIRRUP PLACEMENT)



SECTION B-B
(STIRRUP PLACEMENT)

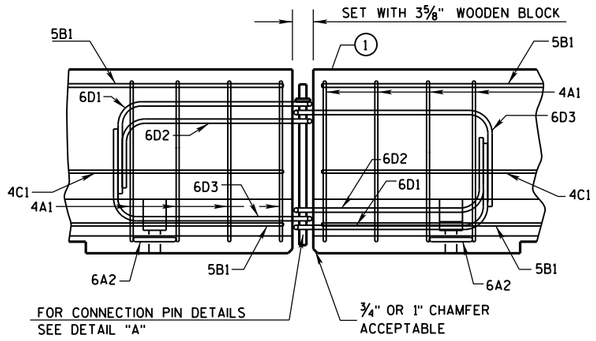


DETAIL "B"
LIFTING SLOT DETAIL

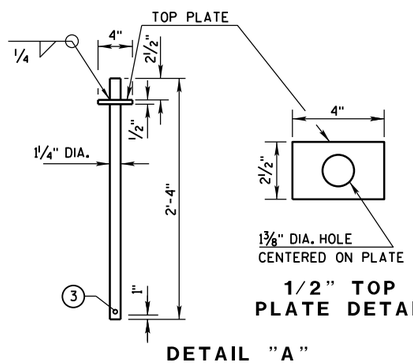


PLAN VIEW

DETAILS OF BARRIER SECTION

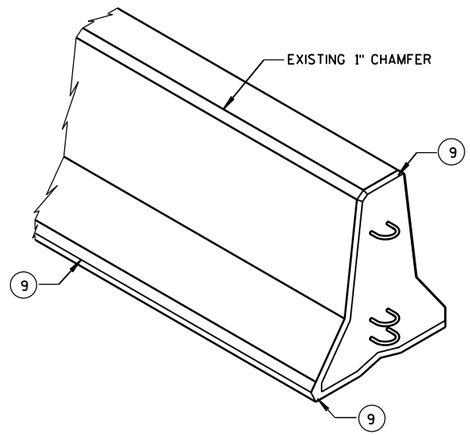


DETAILS OF BARRIER CONNECTION



1/2" TOP PLATE DETAIL

DETAIL "A"
CONNECTION PIN
(A36 STEEL (10.9 LB EACH))



GENERAL NOTES

THESE GENERAL NOTES APPLY TO SHEETS 14B7-15(a) THRU 14B7-15(i).

DO NOT INTERMIX CONCRETE BARRIER TEMPORARY PRCAST, 12'-6" (CBTP12.5) WITH OTHER TEMPORARY CONCRETE BARRIERS.

USE ASTM A-615, GRADE 60, DEFORMED STEEL BARS FOR BARS 4A1, 6A2, 5B1 AND 4C1 IN THE BARRIER SECTION AND FOR 4V1, 4V2, 4V3, 4V4, 4V5, 4V6, 4F1, 4F2 AND 5F3 IN THE BARRIER TAPER SECTION.

LOOP BARS 6D1, 6D2 AND 6D3 SHALL BE ¾" SMOOTH STEEL BARS WITH A MINIMUM YIELD STRENGTH OF 60 KSI, A TENSILE STRENGTH OF NOT LESS THAN 1.25 TIMES THE YIELD STRENGTH BUT A MINIMUM OF 80 KSI, A MINIMUM 14% ELONGATION IN 8 INCHES AND PASSING A 180 DEGREE BEND TEST USING A 3-½" PIN BEND DIAMETER FOR BEND TESTS. THE LOOPS SHALL BE INSTALLED WITHIN ⅛" OF THE PLAN DIMENSION.

CONSTRUCT LIFTING SLOTS AS SPECIFIED ON THE PLANS TO FACILITATE THE DRAINAGE OF WATER AFTER INSTALLATION.

PLACE BARRIER ON A PAVED SURFACE. REMOVE ALL LOOSE DIRT AND SAND FROM THE ROADWAY SURFACE PRIOR TO PLACEMENT OF THE BARRIER.

INSTALL MECHANICAL OR ADHESIVE ANCHORS PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE MANUFACTURER'S INFORMATION TO PROJECT ENGINEER.

(1) MARK ONE END OF EACH BARRIER PERMANENTLY BY FORMING INTO THE BARRIER THE FOLLOWING INFORMATION:
- a. TYPE: WI CBTP
- b. MANUFACTURER
- c. DATE MANUFACTURED (MONTH AND YEAR)

(2) 1" CHAMFER TO PREVENT SPALLING.

(3) A ⅜" HOLE IN THE CONNECTION PIN, AT THE LOCATION SHOWN, IS ACCEPTABLE, BUT NOT REQUIRED..

(4) "V" NOTCH IS OPTIONAL.

(5) THE 4" DIAMETER, 11 GAUGE STEEL, ROUND MECHANICAL TUBING SLEEVE FOR LIFTING (OPTIONAL).

(6) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

(7) USE DELINEATORS CONFORMING TO SECTION 633 OF THE STANDARD SPECIFICATIONS. CONTRACTOR MAY USE ALTERNATE SHAPES AND HOUSING. INSTALL DELINEATORS ACCORDING TO MANUFACTURES INSTRUCTION. INSTALL YELLOW REFLECTORS WHEN BARRIER IS LOCATED TO THE LEFT OF TRAFFIC AND WHITE REFLECTORS WHEN BARRIER IS LOCATED TO THE RIGHT OF TRAFFIC. SPACE DELINEATORS A MAXIMUM OF 25 FEET APART. PROVIDE TOP MOUNTED DELINEATORS IN ADDITION TO THE SIDE MOUNTED DELINEATORS ON ALL BARRIER INSTALLATIONS LOCATED ON A CURVED ALIGNMENT LONGER THAN 200 FEET AND ON BARRIERS USED TO SEPARATE OPPOSING TRAFFIC.

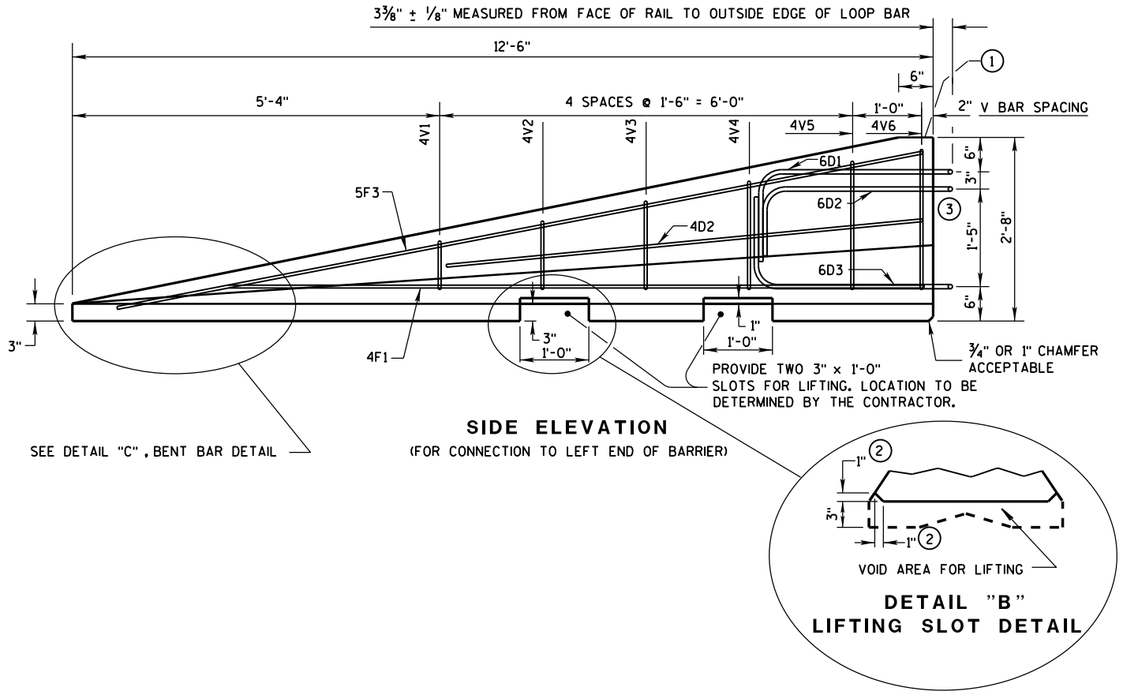
(8) SEE SHEET D FOR HOW TO ANCHOR BARRIER. SEE SHEET E FOR WHEN TO ANCHOR BARRIER.

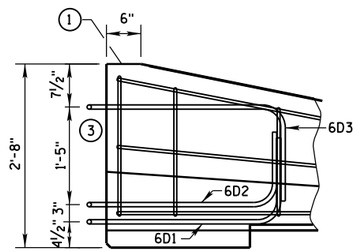
(9) 1" CHAMFER OPTIONAL.

f'c = 4,000 psi

CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

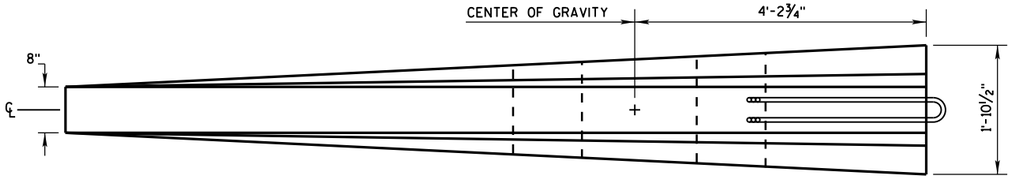
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

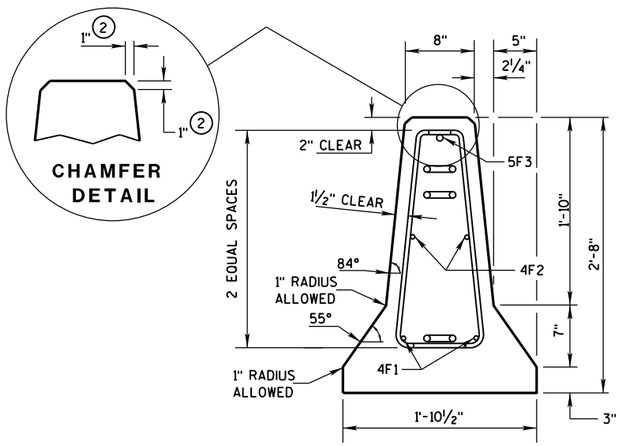


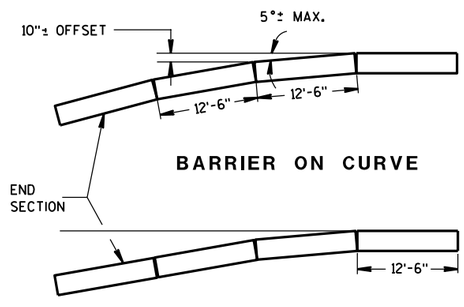


GENERAL NOTES

1. MARK ONE END OF EACH BARRIER PERMANENTLY BY FORMING INTO THE BARRIER THE FOLLOWING INFORMATION:
   a. TYPE WICBTP
   b. MANUFACTURER
   c. DATE MANUFACTURED (MONTH AND YEAR)
2. 1" CHAMFER TO PREVENT SPALLING.
3. NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.







POSTED SPEED, (MPH)	FLARE RATE
40 OR LESS	6:1
45 OR GREATER	8:1

DETAILS OF BARRIER TAPER SECTION

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 14 B 7-15b

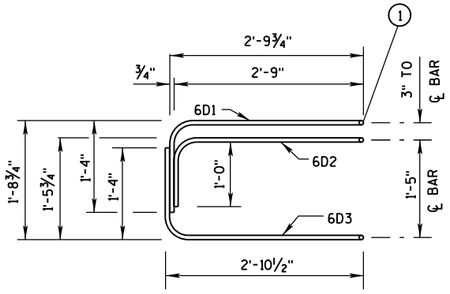
6

S.D.D. 14 B 7-15b

BARRIER TAPER SECTION BILL OF MATERIALS

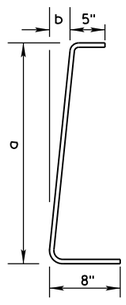
(PER 12'-6" BARRIER TAPER SECTION)

BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4V1	4	2	1'-11"
4V2	4	2	2'-2"
4V3	4	2	2'-6"
4V4	4	2	2'-9"
4V5	4	2	3'-2"
4V6	4	2	3'-4"
4F1	4	2	12'-0"
4F2	4	2	7'-6"
5F3	5	1	11'-9"
LOOP ASSEMBLY			
6D1	6	1	8'-5"
6D2	6	1	7'-7"
6D3	6	1	8'-6"



DETAIL "C"
BENT BAR DETAIL

ELEVATION
LOOP BAR ASSEMBLY



BAR	a	b
V1	10"	1"
V2	1'-1"	1¼"
V3	1'-5"	1⅝"
V4	1'-8"	1⅞"
V5	2'-0½"	2⅜"
V6	2'-3"	2¾"

4V BARS
2 AT EACH SIZE REQUIRED
FOR STIRRUP ASSEMBLY

TAPER BARRIER SECTION

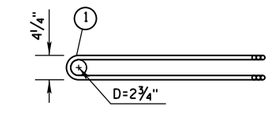
GENERAL NOTES

(1) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

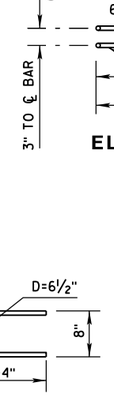
BARRIER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER SECTION)

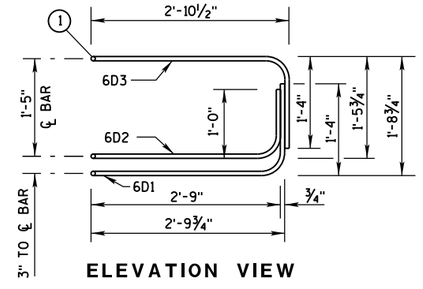
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4A1	4	12	6'-0"
6A2	6	6	2'-11"
5B1	5	3	12'-2"
4C1	4	2	12'-2"
LOOP ASSEMBLY			
6D1	6	2	8'-5"
6D2	6	2	7'-7"
6D3	6	2	8'-6"



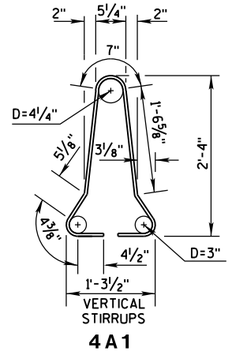
PLAN VIEW
LOOP BAR ASSEMBLY
(MARKED END SHOWN, INVERT FOR OTHER END)



6A2



ELEVATION VIEW



4A1

BARRIER SECTION

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

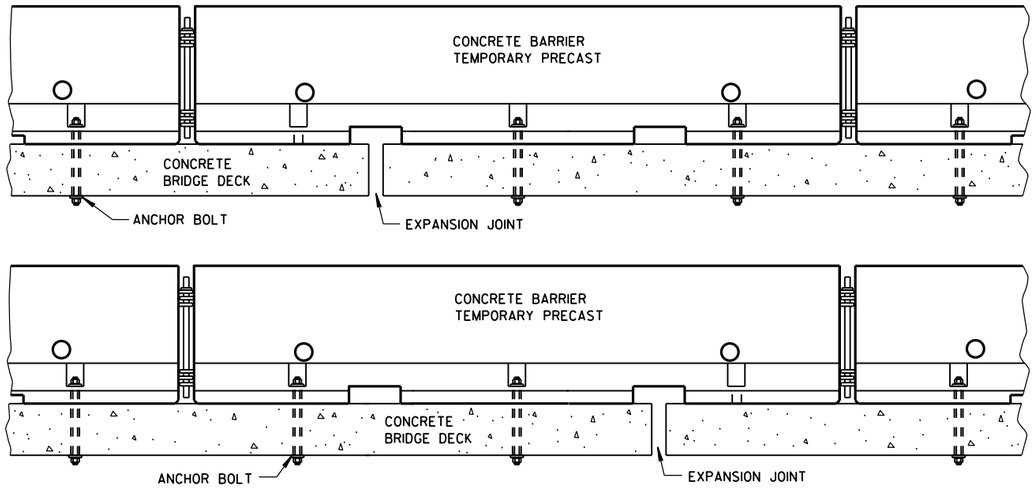
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 14 B 7-15c

6

S.D.D. 14 B 7-15c



TREATMENT AT BRIDGE DECK EXPANSION JOINTS

(NO SINGLE CONCRETE BARRIER SECTION SHALL BE ANCHORED TO BOTH THE BRIDGE DECK AND THE APPROACH SLAB. ALL ANCHOR BOLT LOCATIONS SHALL BE ANCHORED TO THE DECK IN ACCORDANCE WITH THE DETAIL. NO MORE THAN ONE ANCHOR BOLT SHALL BE ELIMINATED FROM A BARRIER SECTION WHEN SPANNING AN EXPANSION JOINT.)

GENERAL NOTES

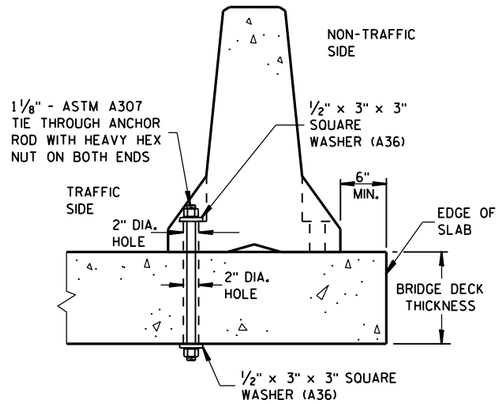
SEE SHEET E FOR WHEN TO ANCHOR. OTHER PARTS OF THE PLAN MAY SHOW ADDITIONAL LOCATIONS REQUIRING ANCHORING.

REMOVE ALL ANCHORS WHEN NO LONGER NEEDED. FILL CONCRETE PAVEMENTS, DECKS AND APPROACH SLABS WITH NON-SHRINK COMMERICAL GROUT FROM THE APPROVED PRODUCT LIST. FILL ASPHALT PAVEMENTS WITH ASTM D6690 TYPE II RUBBERIZED CRACK FILLER.

(1) 1⅛" DIAMENTER A307 THREADED ROD. ½" X 3" X 3" SQUARE PLATE WASHER WITH ASTM A36 STEEL. ASTM A563A HEAVY HEX NUT.

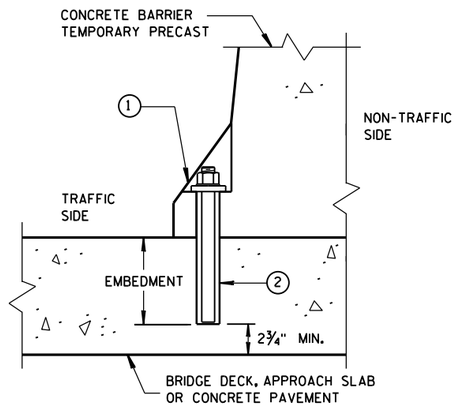
(2) ADHESIVE ANCHORS WITH A MINIMUM BOND STRENGTH OF 1,800 PSI AND 5¼" EMBEDMENT. SEE 603.2 AND 603.3.1.2 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR MORE INFORMATION ON ADHESIVE ANCHORS.

(3) ASPHALT SURFACE SHOWN. CONTRACTOR MAY DRILL THROUGH CONCRETE PAVEMENT AND THAN DRIVE ASPHALT ANCHOR PIN.



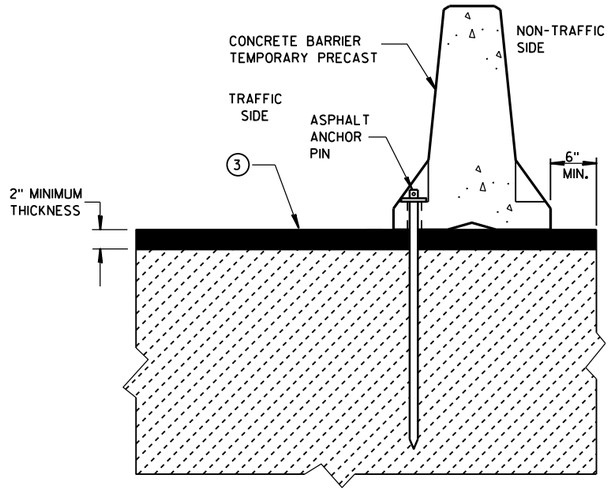
THROUGH BOLTED ANCHOR INSTALLATION ON BRIDGE DECK

(DO NOTUSE ON CONCRETE BRIDGE DECK WITH ASPHALT OVERLAY)

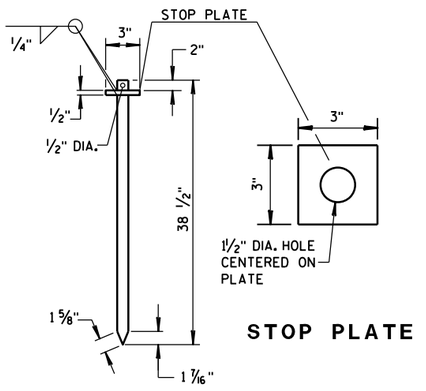


REMOVABLE ADHESIVE ANCHOR INSTALLATION ON CONCRETE BRIDGE DECK, CONCRETE APPROACH SLAB, OR CONCRETE PAVEMENT

(DO NOT USE ON CONCRETE WITH AN ASPHALTIC OVERLAY)



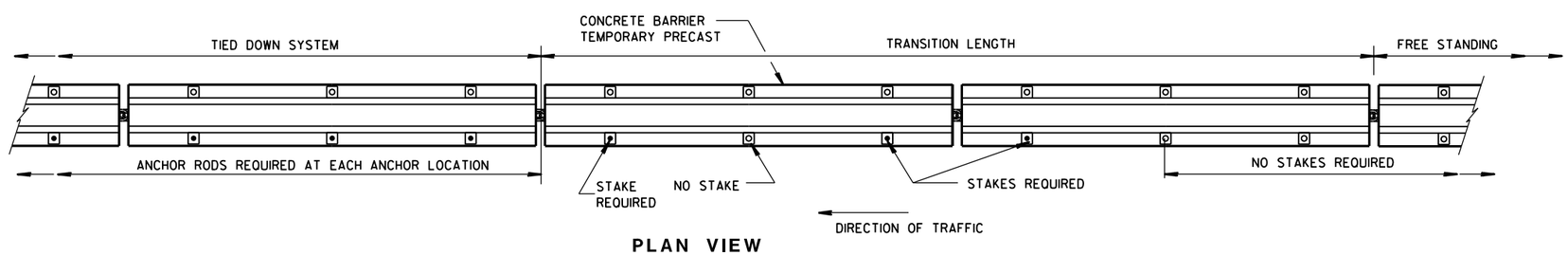
STAKE DOWN INSTALLATION FOR ASPHALTIC SURFACE



STOP PLATE

ASPHALT ANCHOR PIN

(ASTM A36 STEEL)



PLAN VIEW

FREE STANDING TRANSITION TO TIED-DOWN SYSTEM

(PLACE TRANSITION IN A TANGENT SECTION OF BARRIER PARALLEL TO THE ROADWAY. IF TRANSITION OCCURS ON STRUCTURAL SLAB, ANCHOR AS SHOWN.)

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

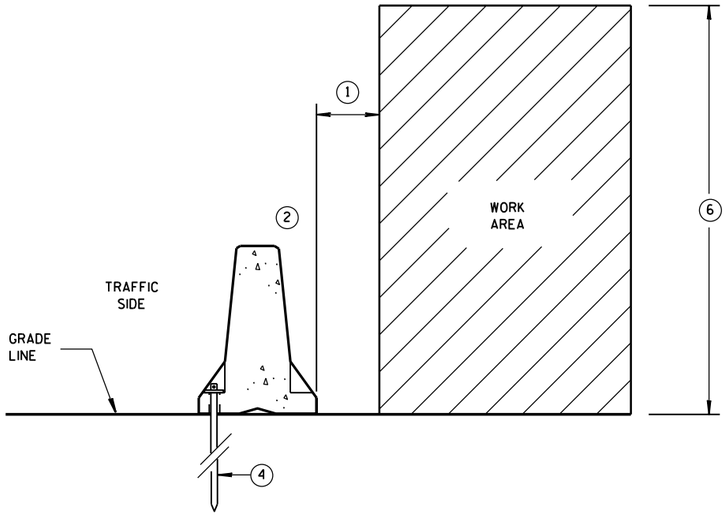
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

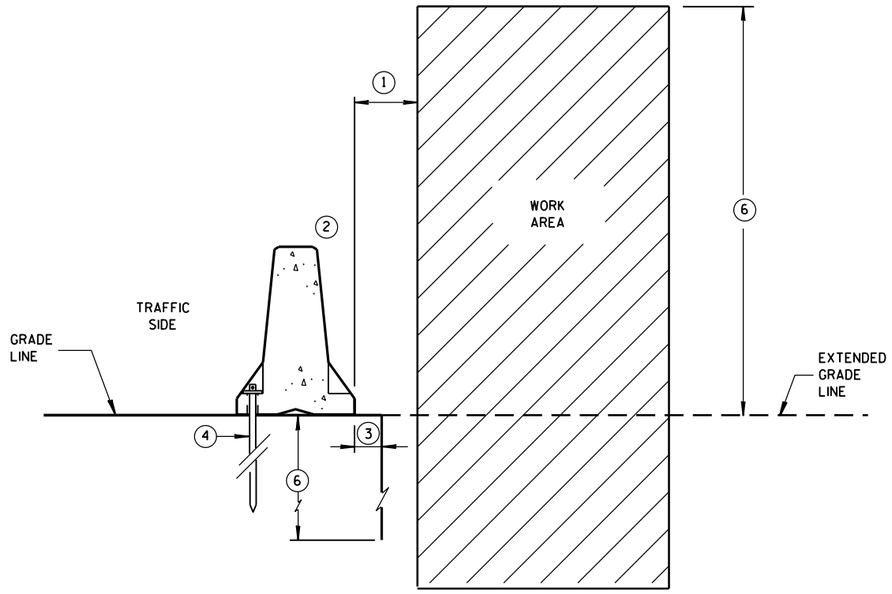
S.D.D. 14 B 7-15d

6

S.D.D. 14 B 7-15d



ANCHORED BARRIER SPACE REQUIREMENTS FOR HAZARDS EXTENDED ABOVE THE GRADE LINE

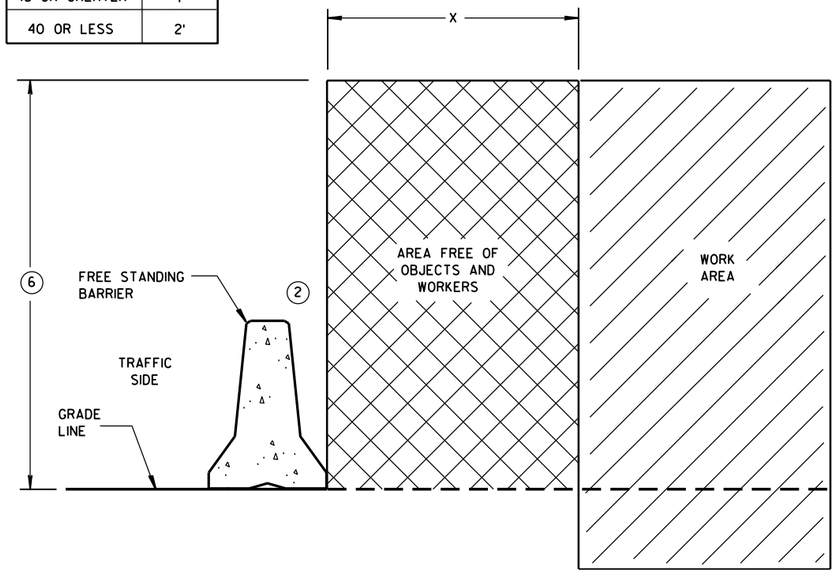


ANCHORED BARRIER SPACE REQUIREMENTS ON VERTICAL DROP OFFS

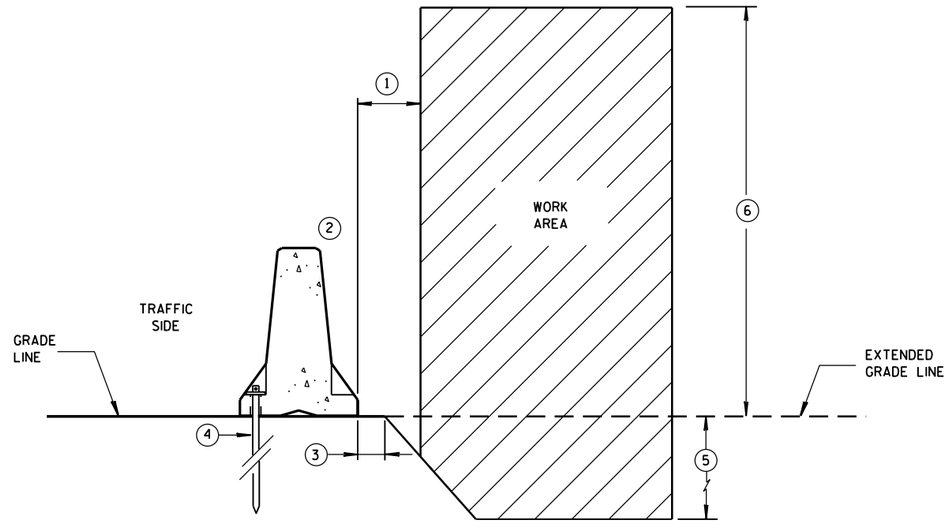
GENERAL NOTES

1. WHEN OBJECTS EXTEND ABOVE THE GRADE, A MINIMUM OF 1 FOOT IS REQUIRED FROM BACK OF BARRIER TO OBJECT. SEE OTHER DETAILS FOR FOR THE MINIMUM OFFSET FROM BACK OF BARRIER TO SLOPES OR VERTICAL DROPS.
2. OBJECTS ARE NOT TO BE PLACED ON, MOUNTED TO, OR LEANED AGAINST THE BARRIER WITHOUT PERMISSION OF THE PROJECT ENGINEER.
3. SEE OTHER DETAIL ON SHEET "D" FOR SPACE REQUIREMENTS.
4. SEE BOLT THROUGH DECK, REMOVABLE ADHESIVE ANCHOR, OR A STAKE DOWN FOR ASPHALTIC SURFACE TREATMENT DETAILS. ASPHALTIC ANCHOR SHOWN.
5. DEPTH OF 3 FEET OR MORE.
6. Y = 6'-6".

POSTED SPEED MPH	X
45 OR GREATER	4'
40 OR LESS	2'



FREE STANDING BARRIER SPACE REQUIREMENTS



ANCHORED BARRIER SPACE REQUIREMENTS ON SLOPES

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

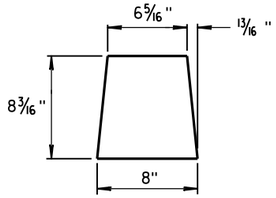
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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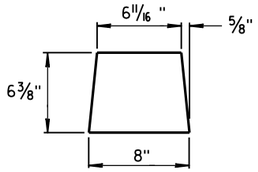
S.D.D. 14 B 7-15e

6

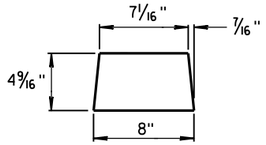
S.D.D. 14 B 7-15e



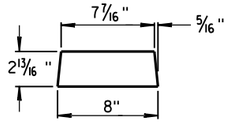
GUSSET 1



GUSSET 2

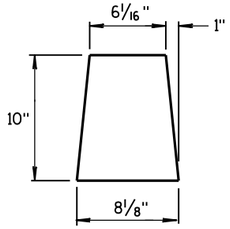


GUSSET 3

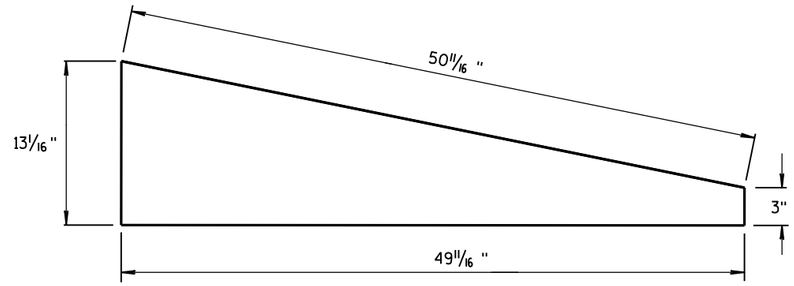


GUSSET 4

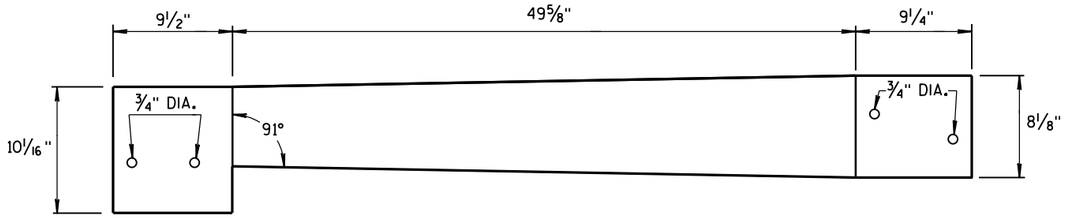
GUSSETS

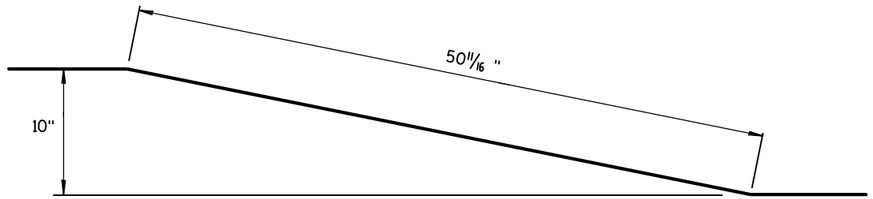


END PLATE



SIDE PLATE

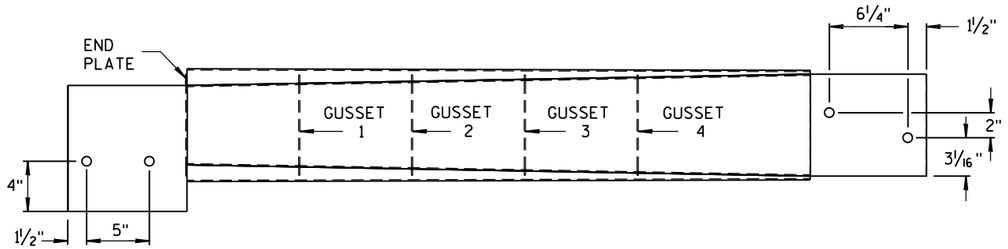


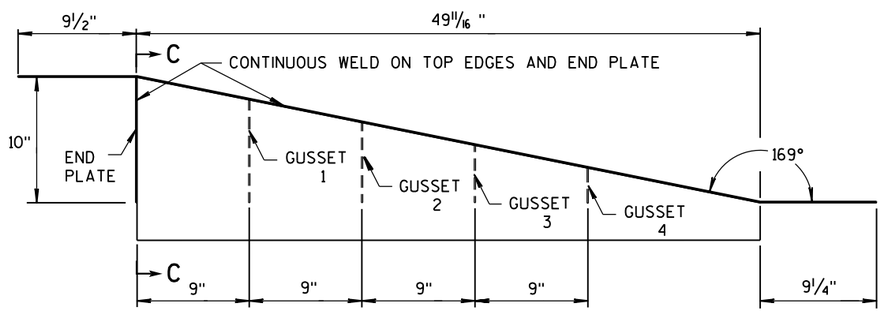


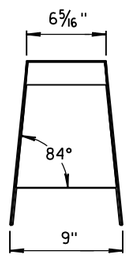
TOP PLATE

SIDE, TOP AND END PLATES FOR CAP FROM TEMPORARY CONCRETE BARRIER TO 42" PERMANENT CONCRETE BARRIER

SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 GALVANIZED STEEL.







SECTION C-C

NOTES

1. FOUR GUSSETS AND END PLATE ARE STITCH WELDED ON THREE SIDES.
2. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE, AND GUSSETS.

CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 42" PERMANENT CONCRETE BARRIER

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

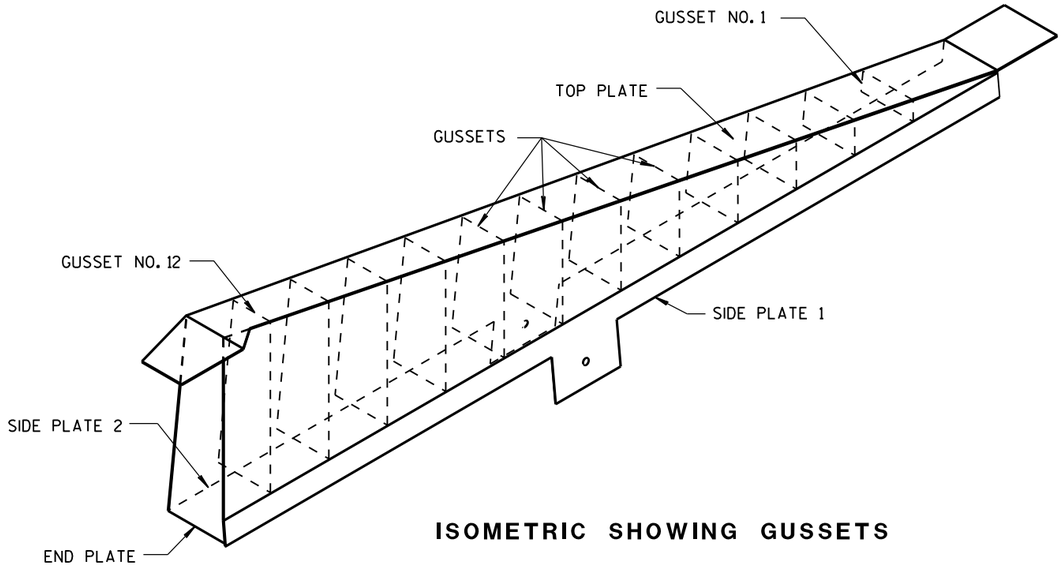
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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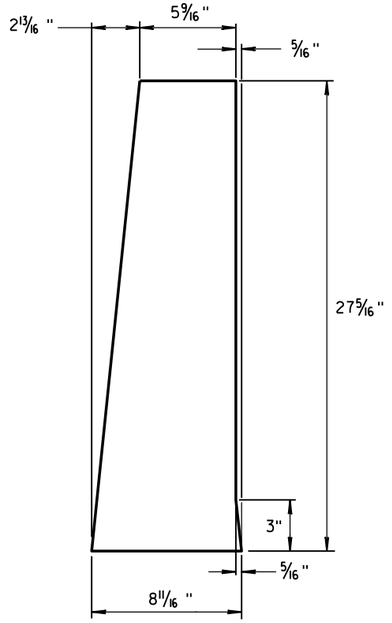
S.D.D. 14 B 7-15g

6

S.D.D. 14 B 7-15g

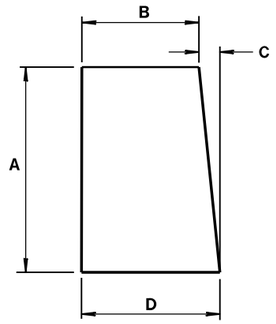


ISOMETRIC SHOWING GUSSETS



END PLATE

1/8" STEEL PLATE



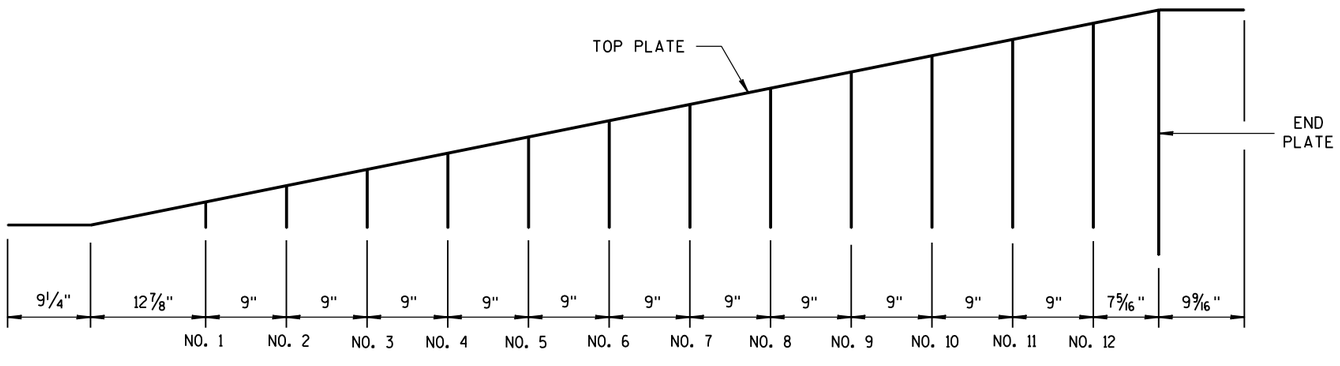
GUSSETS 1 - 12

ALL GUSSETS 1/8" STEEL PLATE

GUSSET DIMENSIONS				
GUSSET NO.	A	B	C	D
1	2 7/8"	7 3/4"	1/4"	8
2	4 11/16 "	7 9/16 "	1/2"	8
3	6 1/2"	7 3/8"	11/16 "	8 1/16 "
4	8 5/16 "	7 3/16 "	7/8"	8 1/16 "
5	10 1/8"	7"	1 1/16 "	8 1/16 "
6	11 15/16 "	6 13/16 "	1 1/4"	8 1/16 "
7	13 3/4"	6 5/8"	1 7/16 "	8 1/16 "
8	15 9/16 "	6 7/16 "	1 9/16 "	8 1/16 "
9	17 3/8"	6 1/4"	1 13/16 "	8 1/16 "
10	19 3/16 "	6 1/16 "	1 15/16 "	8 1/16 "
11	21"	5 7/8"	2 3/16 "	8 1/16 "
12	22 13/16 "	5 11/16 "	2 5/16 "	8 1/16 "

SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 STEEL AND GALVANIZED.

GUSSETS AND END PLATE ARE STITCH WELDED ON 3 SIDES. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE AND GUSSETS.



GUSSET LOCATION

CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 56" PERMANENT CONCRETE BARRIER

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

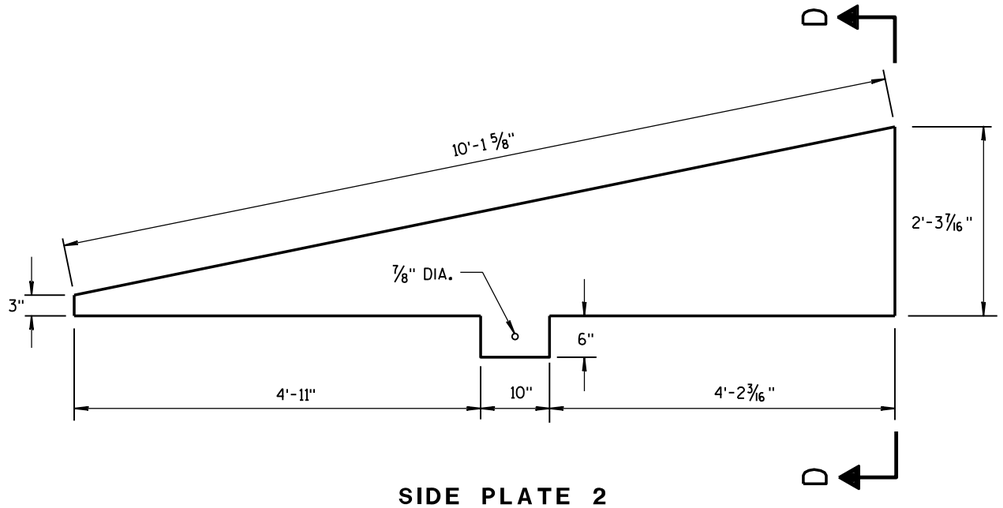
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

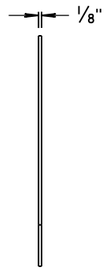
S.D.D. 14 B 7-15h

6

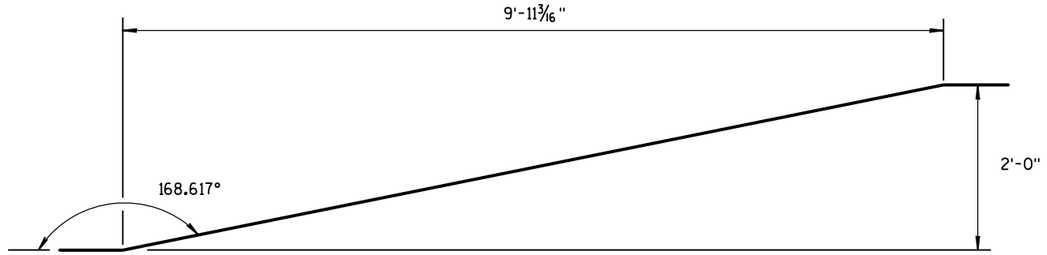
S.D.D. 14 B 7-15h



SIDE PLATE 2

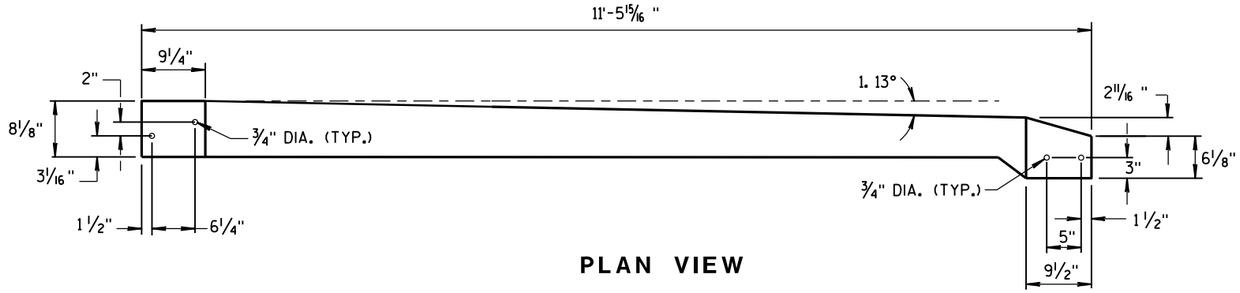


END VIEW



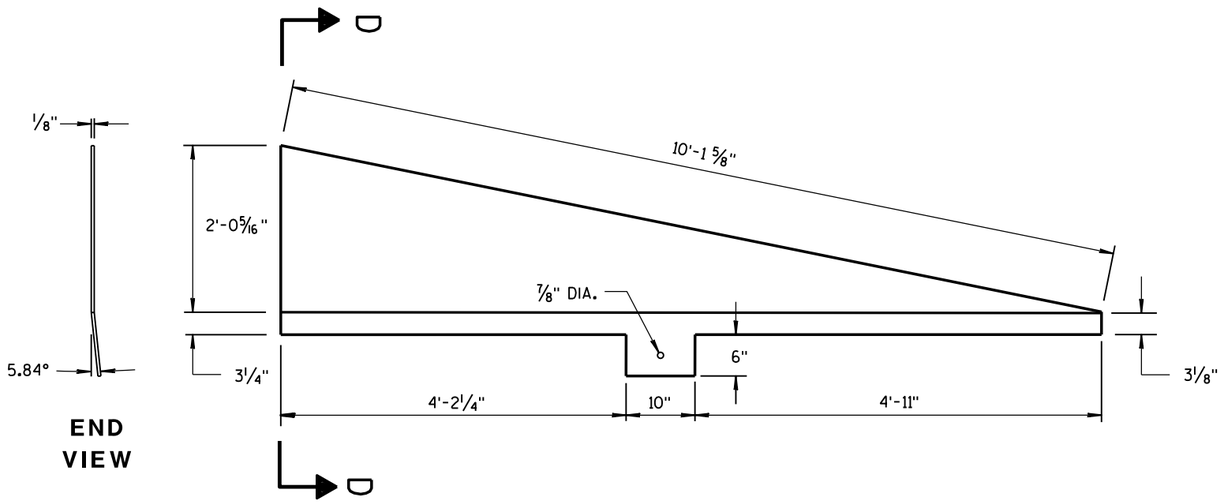
SIDE VIEW

TOP PLATE



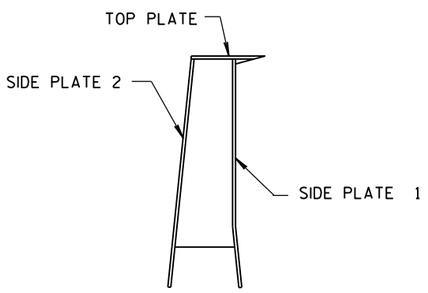
PLAN VIEW

TOP PLATE



END VIEW

SIDE PLATE 1



SECTION D-D

CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 56" PERMANENT CONCRETE BARRIER

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017
DATE

/S/ Rodney Taylor
ROADWAY STANDARD DEVELOPMENT UNIT SUPERVISOR

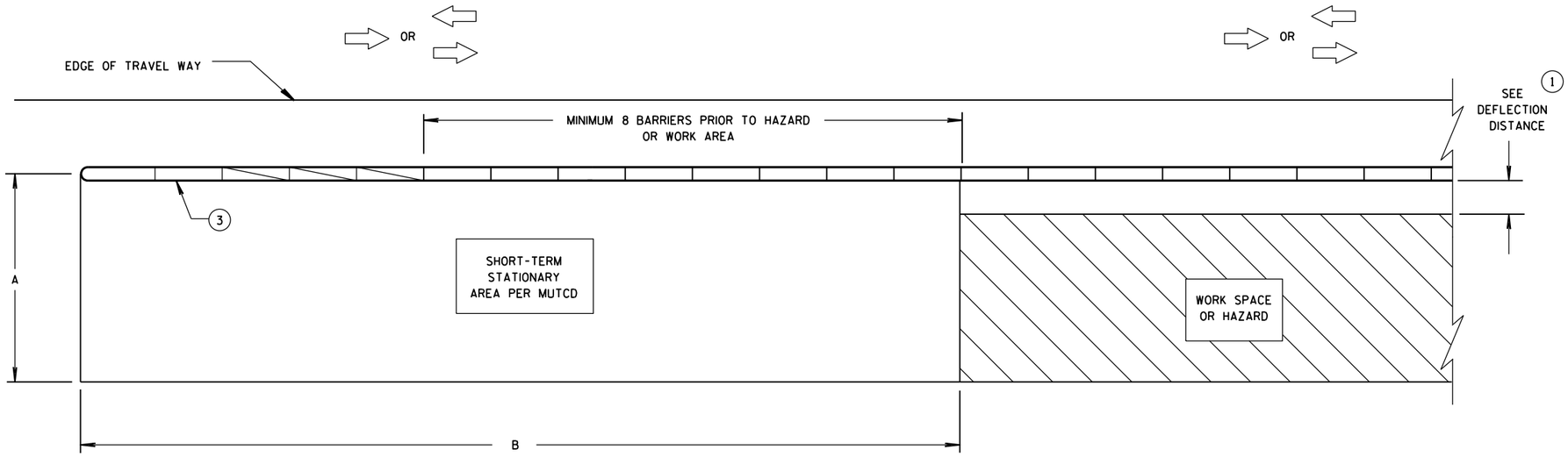
FHWA

6

S.D.D. 14 B 7-15i

6

S.D.D. 14 B 7-15i



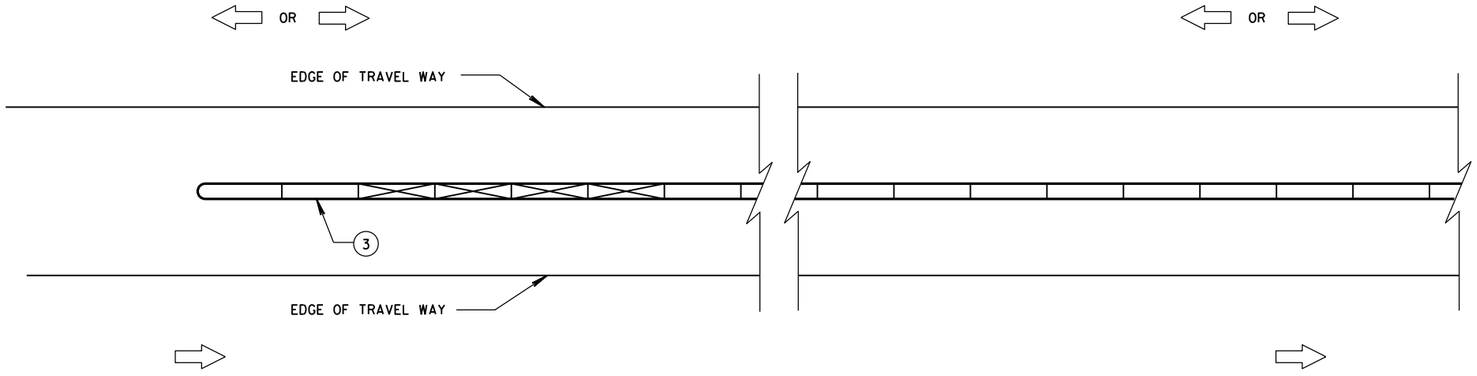
CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER INSTALLATION FOR TRAFFIC ON ONE SIDE OF BARRIER

DIMENSION A TABLE (2)

FACILITY	POSTED SPEED MPH	DIMENSION A	
		MIN. FT	MAX. FT
FREEWAY/EXPRESSWAY	ALL	15	20
NON-FREEWAY/EXPRESSWAY	GREATER THAN OR EQUAL TO 45	10	15
NON-FREEWAY/EXPRESSWAY	LESS THAN 45	8	10
AADT LESS THAN 1,500	ALL	8	10

DIMENSION B TABLE (2)

POSTED SPEEDS MPH	DIMENSION B FT
20	115
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645



CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER INSTALLATION FOR TRAFFIC ON BOTH SIDES OF BARRIER

LEGEND

- DIRECTION OF TRAVEL
- CRASH CUSHION OR SAND BARREL ARRAY
- SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS
- SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS
- 3 PINS PLACED ON TRAFFIC SIDE OF BARRIER
- PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET
- FREE STANDING TEMPORARY BARRIER

GENERAL NOTES

SEE STANDARD DETAIL DRAWING 14B7 FOR MORE INFORMATION.

DETAILS PROVIDE A GENERAL LAYOUT OF TEMPORARY CONCRETE BARRIER, CRASH CUSHIONS, SAND BARREL ARRAYS AND TIE DOWN TRANSITIONS. DETAILS PROVIDED MAY NOT FIT ALL POSSIBLE SITUATIONS OR SITE CONDITIONS. SEE OTHER SECTIONS OF THE CONTRACT OR PROJECT ENGINEER FOR MORE DETAILS.

ADDITIONAL TEMPORARY BARRIER MAY BE REQUIRED TO PROTECT TRAVELING PUBLIC FROM HAZARDS, CONTRACTOR'S OPERATIONS OR TO CONTROL TRAFFIC.

TEMPORARY BARRIER MAY BE REQUIRED TO BE ANCHORED TO PAVEMENT OR BRIDGE DECK.

FOR DETAILS ON CRASH CUSHION OR SAND BARREL ARRAYS SEE OTHER SECTIONS OF THE PLAN AND MANUFACTURE'S DETAILS.

SLOPES LEADING TO TEMPORARY BARRIER, CRASH CUSHION OR SAND BARREL ARRAY ARE 10:1 OR LESS.

(1) FOR DEFLECTION INFORMATION SEE STANDARD DETAIL DRAWING 14B7.

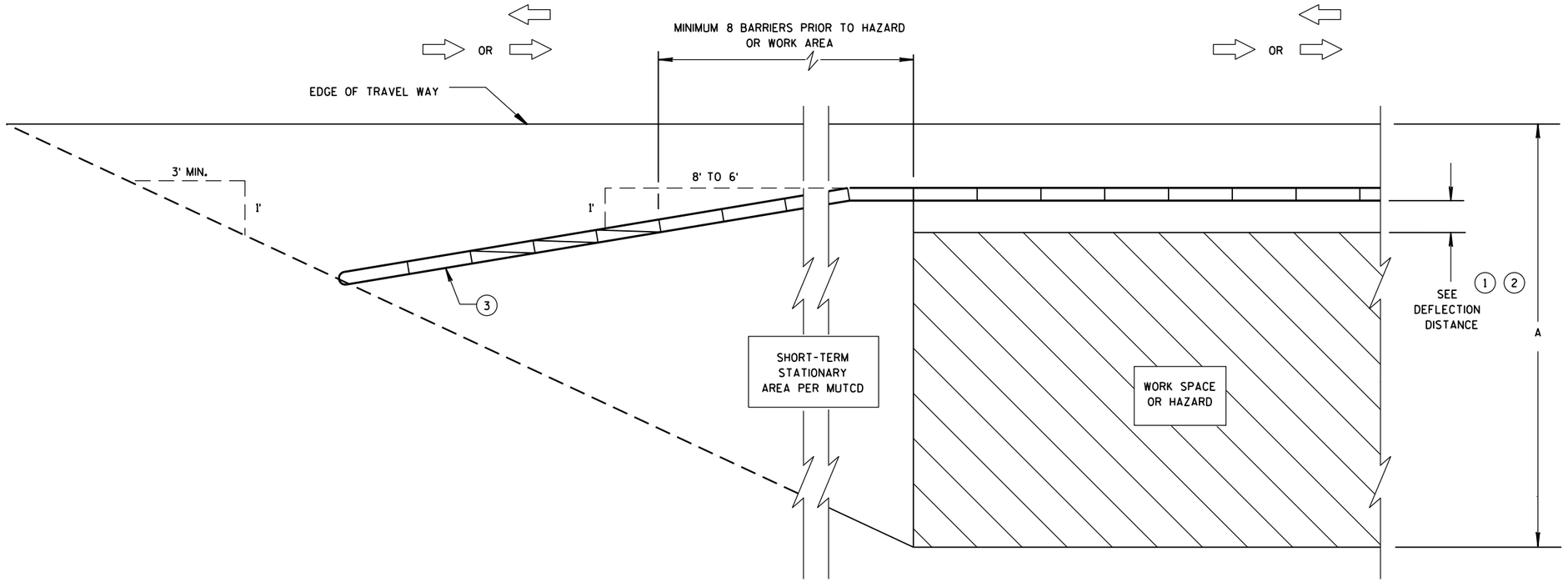
(2) VALUES PROVIDED MAY NOT FIT ALL POSSIBLE SITUATIONS OR SITE CONDITIONS. SEE OTHER SECTIONS OF THE CONTRACT OR PROJECT ENGINEER FOR MORE DETAILS.

(3) ANCHOR TEMPORARY BARRIER ACCORDING TO CRASH CUSHION OR SAND BARREL MANUFACTURER'S RECOMMENDATIONS. IF MANUFACTURER'S RECOMMENDATIONS ARE NOT PROVIDED, ANCHOR 3 PINS ON TRAFFIC SIDE.

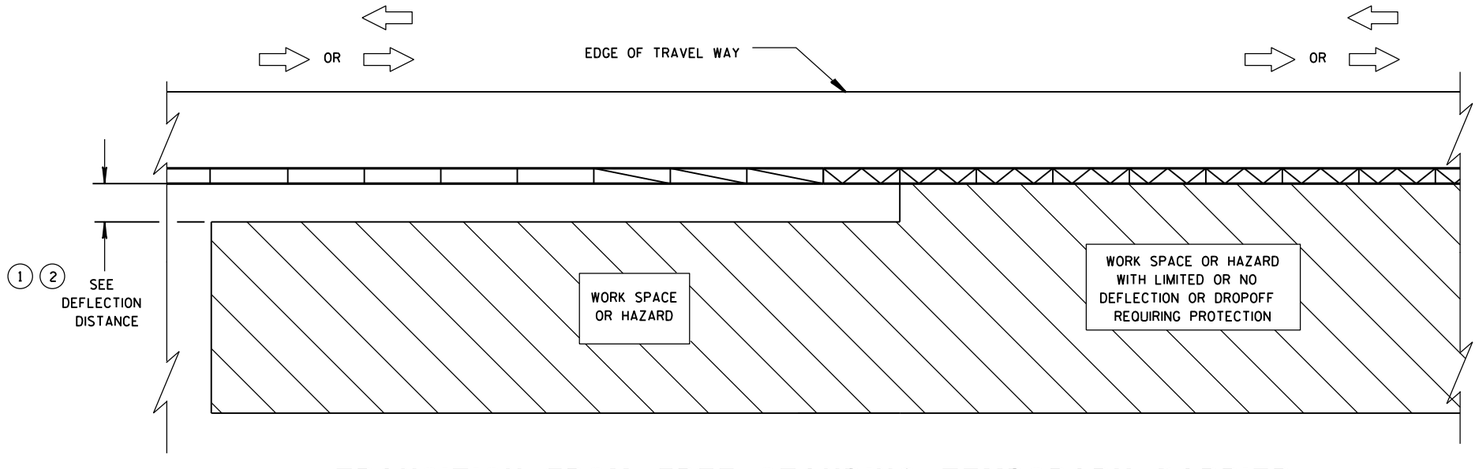
CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
S.D.D. 14 B 8-2a



CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER INSTALLATION FOR TRAFFIC ON ONE SIDE - FLARED INSTALLATION



TRANSITION FROM FREE STANDING TEMPORARY BARRIER TO ANCHORED BARRIER

LEGEND

- DIRECTION OF TRAVEL
- CRASH CUSHION OR SAND BARREL ARRAY
- SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS
- SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS
- 3 PINS PLACED ON TRAFFIC SIDE OF BARRIER
- PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET
- FREE STANDING TEMPORARY BARRIER

CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

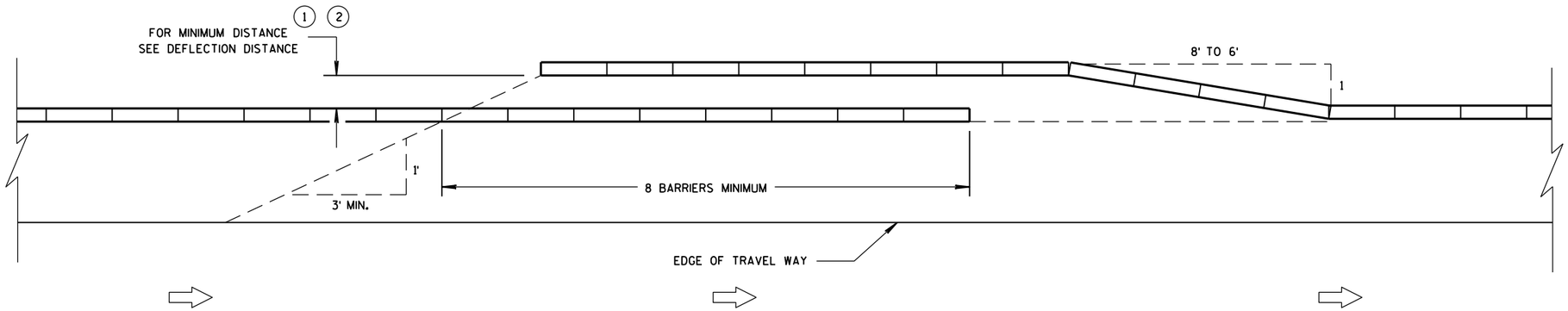
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

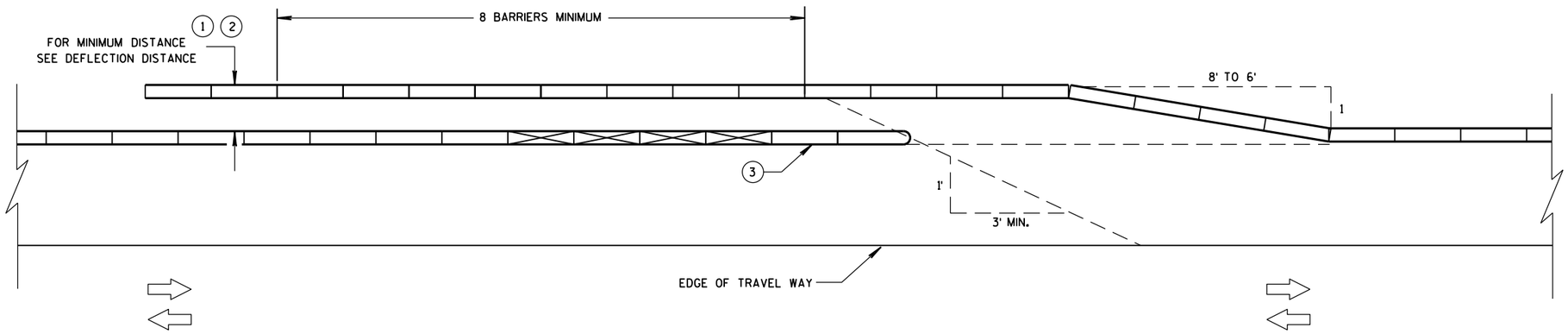
S.D.D. 14 B 8-2b

6

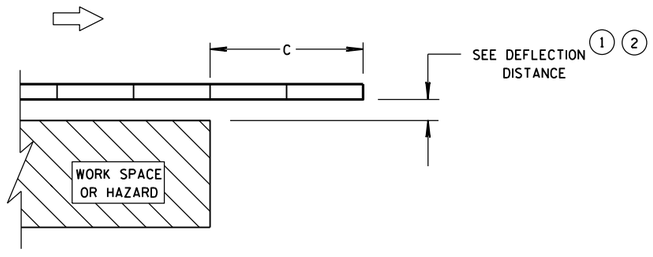
S.D.D. 14 B 8-2b



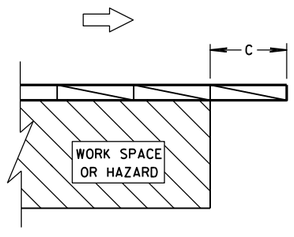
TEMPORARY BARRIER OVERLAP - ONE-WAY TRAFFIC



TEMPORARY BARRIER OVERLAP - TWO-WAY TRAFFIC



ENDING TEMPORARY BARRIER DOWNSTREAM - UNANCHORED



ENDING TEMPORARY BARRIER DOWNSTREAM - ANCHORED

LEGEND

- DIRECTION OF TRAVEL
- CRASH CUSHION OR SAND BARREL ARRAY
- SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS
- SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS
- 3 PINS PLACED ON TRAFFIC SIDE OF BARRIER
- PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET
- FREE STANDING TEMPORARY BARRIER

CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

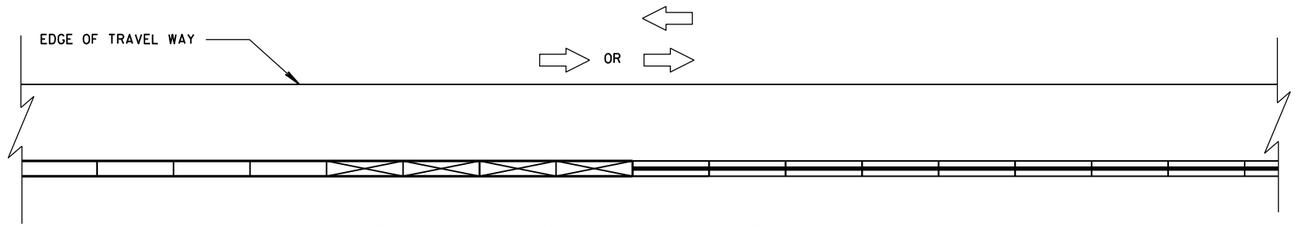
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

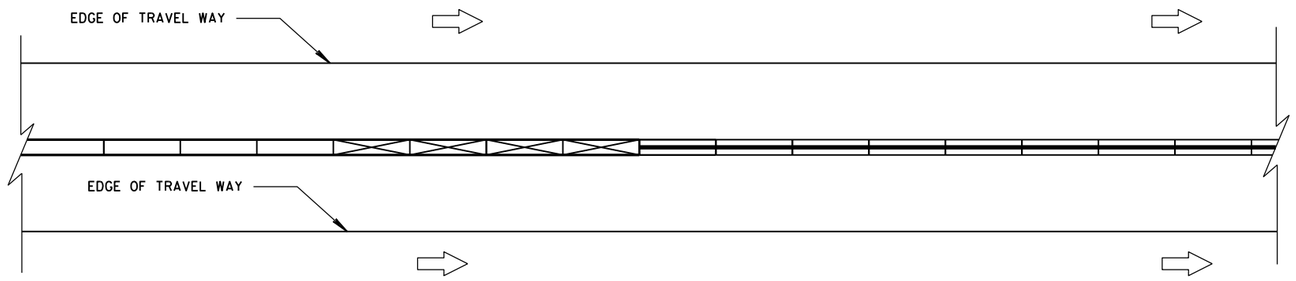
S.D.D. 14 B 8-2c

6

S.D.D. 14 B 8-2c



CONNECTING TEMPORARY BARRIER TO PERMANENT
CONCRETE BARRIER-TRAFFIC ON ONE SIDE



CONNECTING TEMPORARY BARRIER TO PERMANENT
CONCRETE BARRIER-TRAFFIC ON BOTH SIDES

LEGEND

DIRECTION OF TRAVEL

CRASH CUSHION OR
SAND BARREL ARRAY

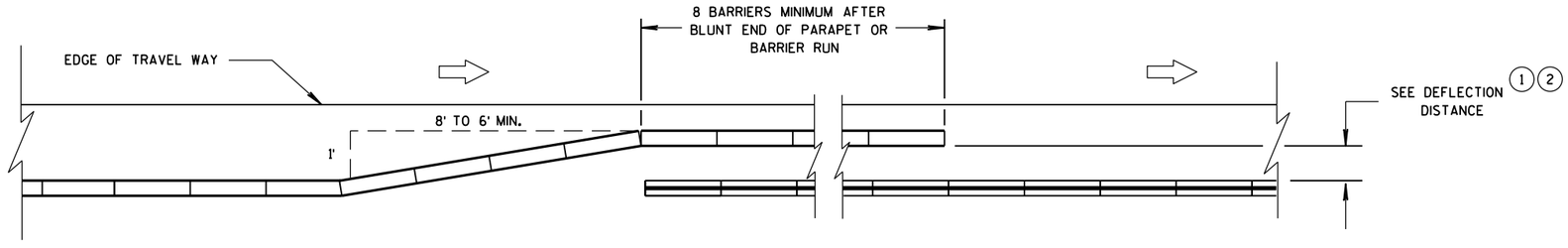
SEE FREE STANDING TRANSITION
TO TIED-DOWN SYSTEM DETAILS

SEE BI-DIRECTIONAL TRANSITION
TO TIED-DOWN SYSTEM DETAILS

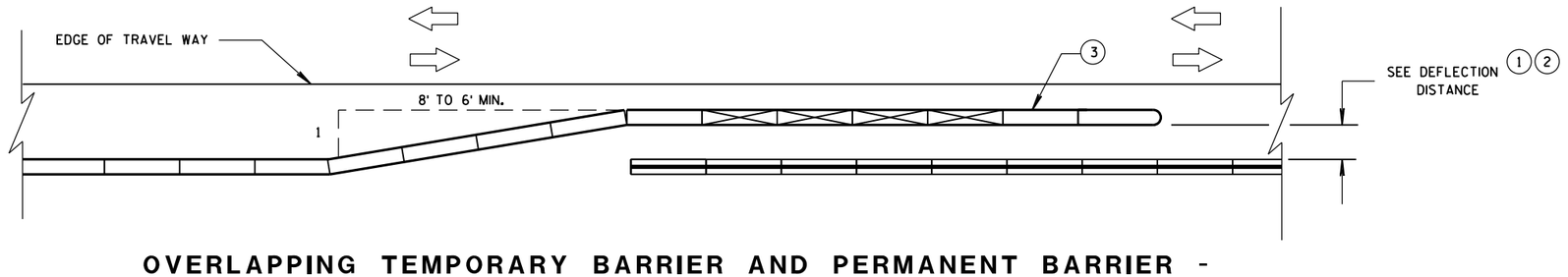
3 PINS PLACED ON
TRAFFIC SIDE OF BARRIER

PERMANENT CONCRETE BARRIER
OR CONCRETE PARAPET

FREE STANDING TEMPORARY
BARRIER



OVERLAPPING TEMPORARY BARRIER AND PERMANENT BARRIER -
ONE WAY TRAFFIC



OVERLAPPING TEMPORARY BARRIER AND PERMANENT BARRIER -
TWO WAY TRAFFIC

CRASH CUSHION/SAND BARREL
ARRAY AND OTHER TEMPORARY
BARRIER LAYOUT DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 14 B 8-2d

6

S.D.D. 14 B 8-2d

LEGEND

DIRECTION OF TRAVEL

CRASH CUSHION OR SAND BARREL ARRAY

SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS

SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS

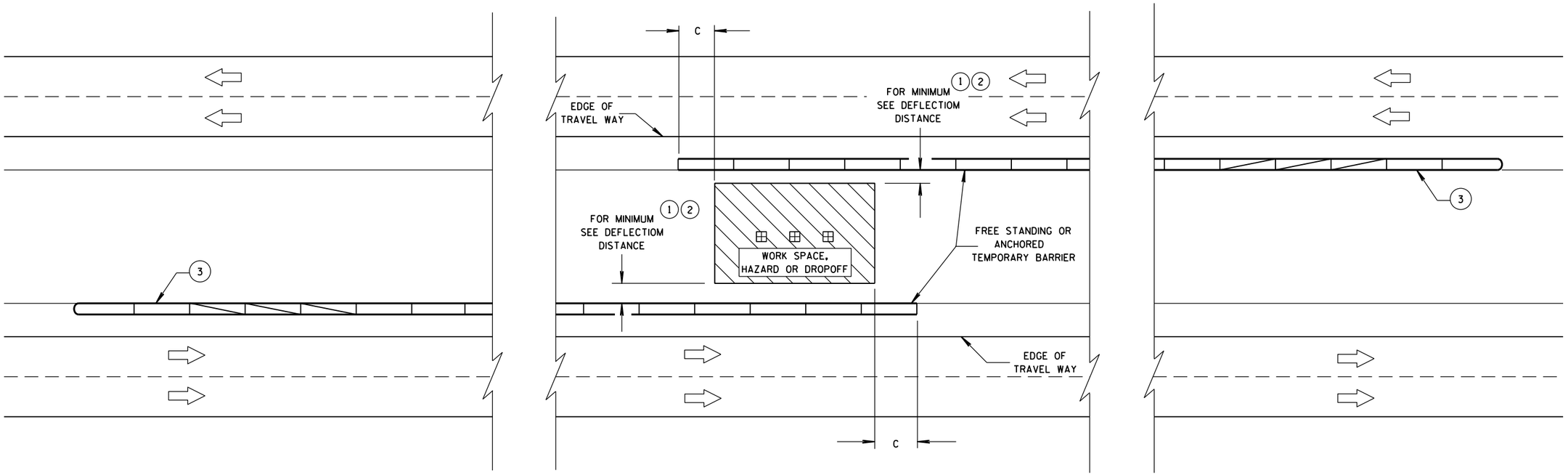
3 PINS PLACED ON TRAFFIC SIDE OF BARRIER

PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET

FREE STANDING TEMPORARY BARRIER

DIMENSION C TABLE (2)

AVAILABLE DEFLECTION DISTANCE	MINIMUM LENGTH OF BARRIER BEYOND HAZARD FT
GREATER THAN 8'	12.5
LESS THAN OR EQUAL TO 8' BUT GREATER THAN 4'	50
LESS THAN OR EQUAL TO 4'	100



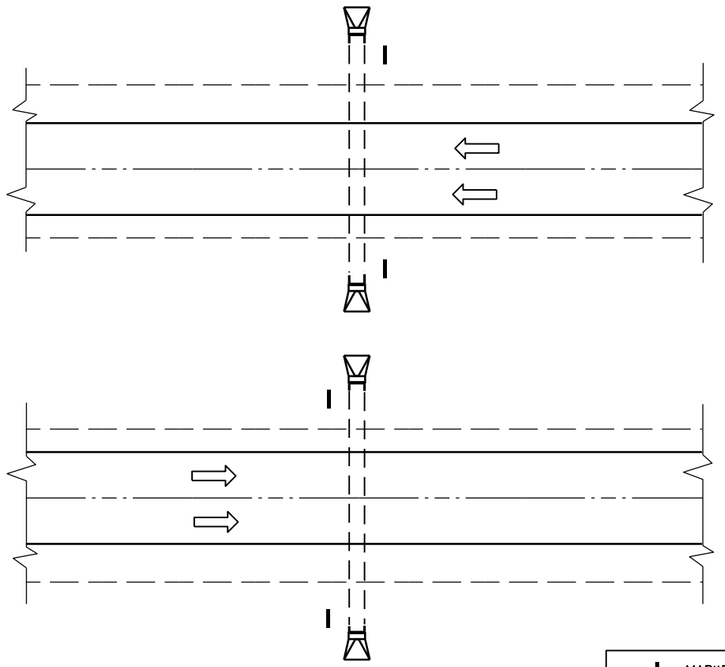
CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015
DATE
FHWA

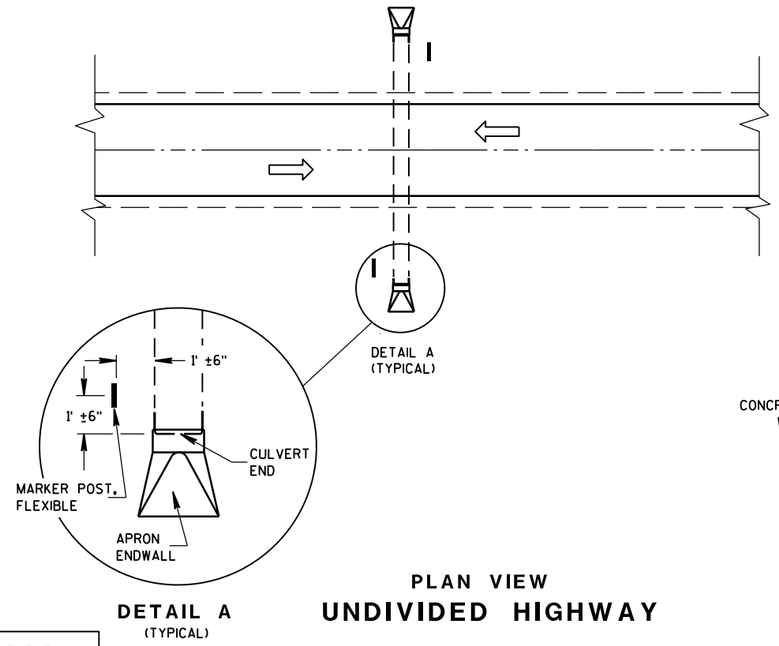
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINNER

6
S.D.D. 14 B 8-2e



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

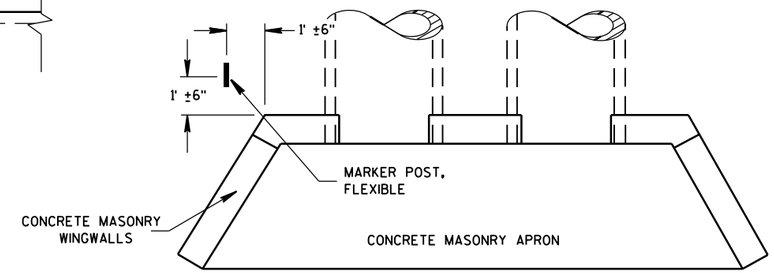
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

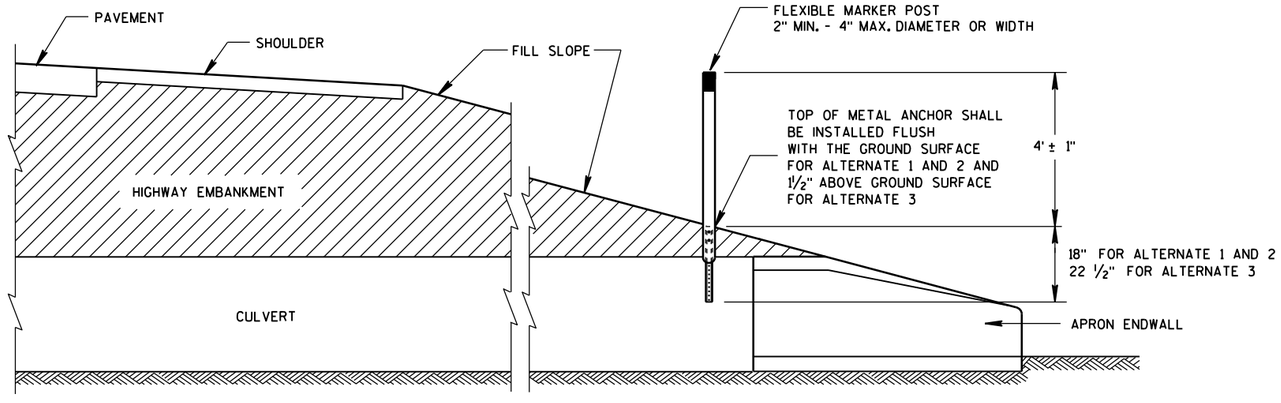
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

FLEXIBLE MARKER POST LOCATION



CROSS SECTION

FLEXIBLE MARKER POST

FLEXIBLE MARKER POST FOR CULVERT END

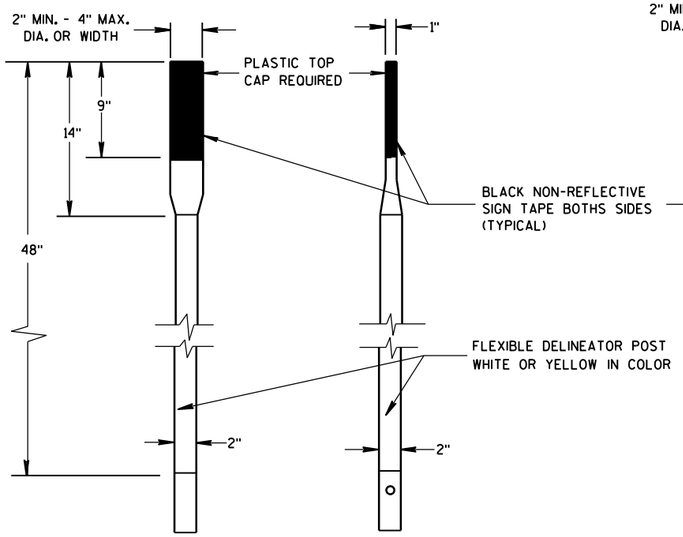
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

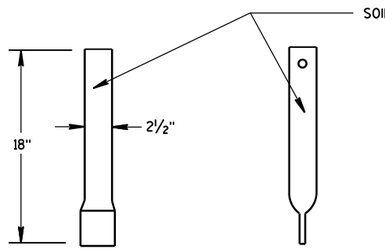
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S.D.D. 15 A 3-2a

6

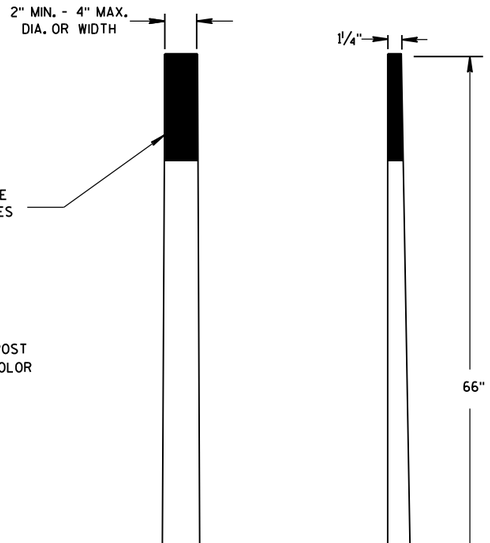
S.D.D. 15 A 3-2a





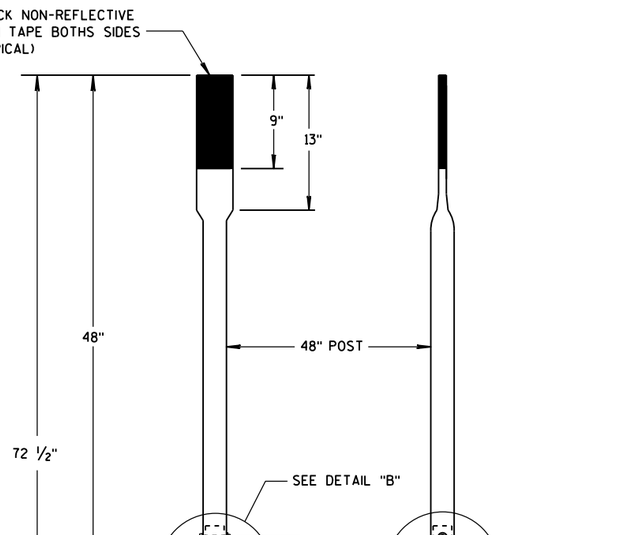
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

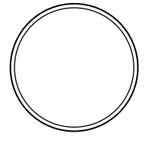
ALTERNATE 2



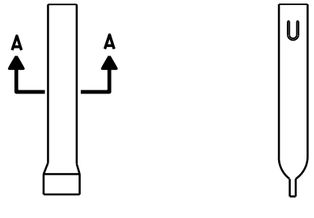
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POSTS

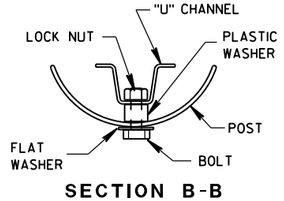


SECTION A-A

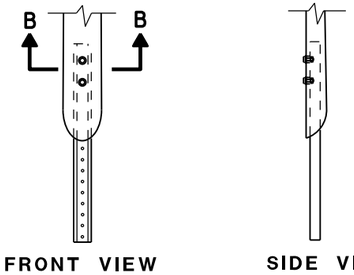


FRONT VIEW SIDE VIEW

ALTERNATE 1

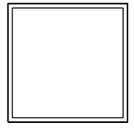


SECTION B-B

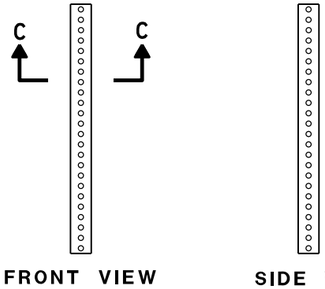


FRONT VIEW SIDE VIEW

ALTERNATE 2



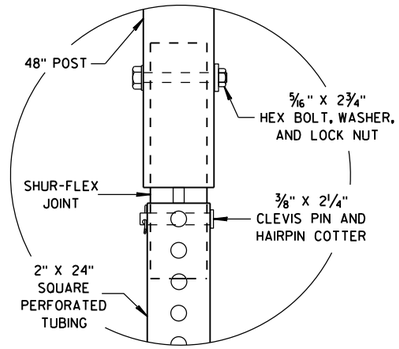
SECTION C-C



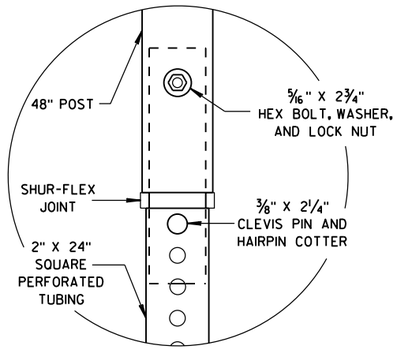
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS



DETAIL B



DETAIL C

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

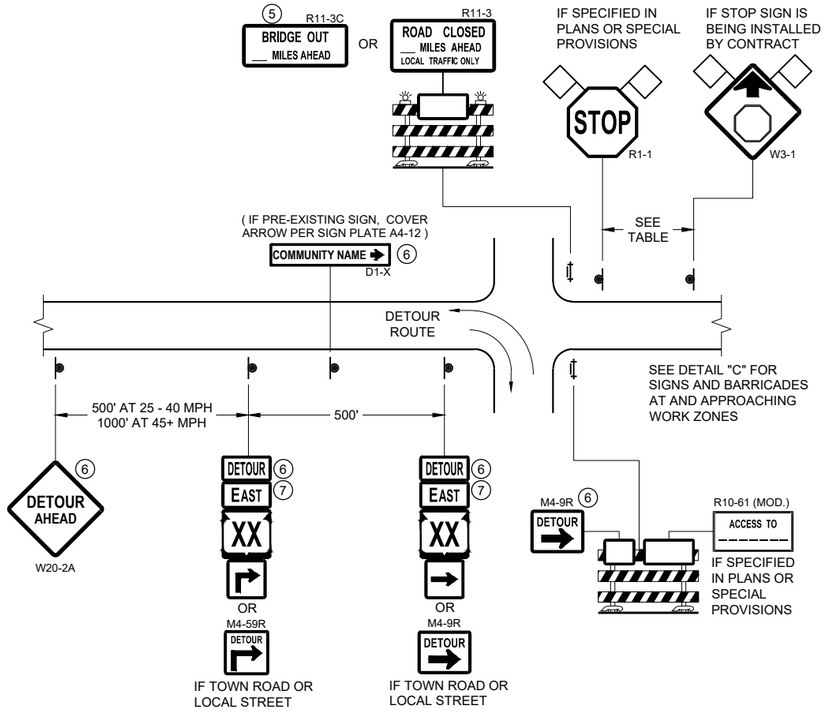
APPROVED
10/1/2012
DATE
/S/ Travis Feltes
STATE TRAFFIC ENGINEER OF DESIGN
FHWA

6

S.D.D. 15 A 3-2b

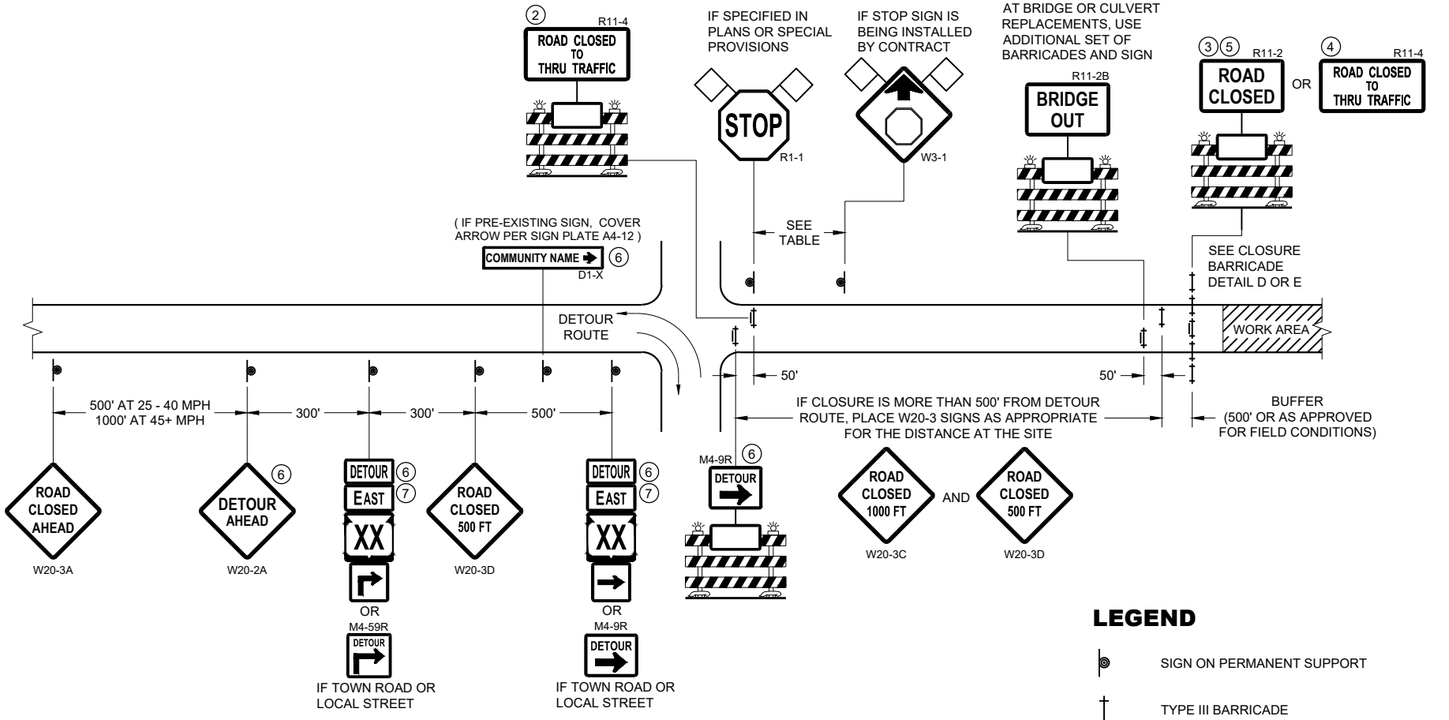
6

S.D.D. 15 A 3-2b



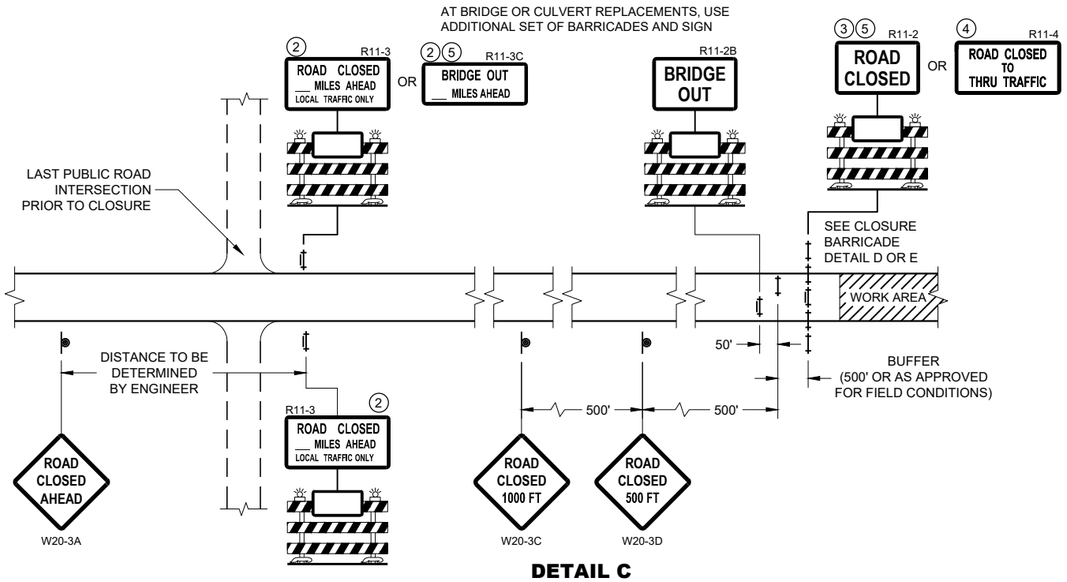
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN OR EQUAL TO ½ □ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN ½ □ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

SEE SDD 15C2-SHEET "b"
FOR GENERAL NOTES
AND FOOTNOTES ① THROUGH ⑦

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- FLAGS, 16" X 16" MIN. (ORANGE)
- DETOUR — M4 - 8
- EAST — M3 - X
- XX — M1 - 4 OR XX — M1 - 6 OR COUNTY X — M1 - 5A
- M05 - 1 OR M06 - 1

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

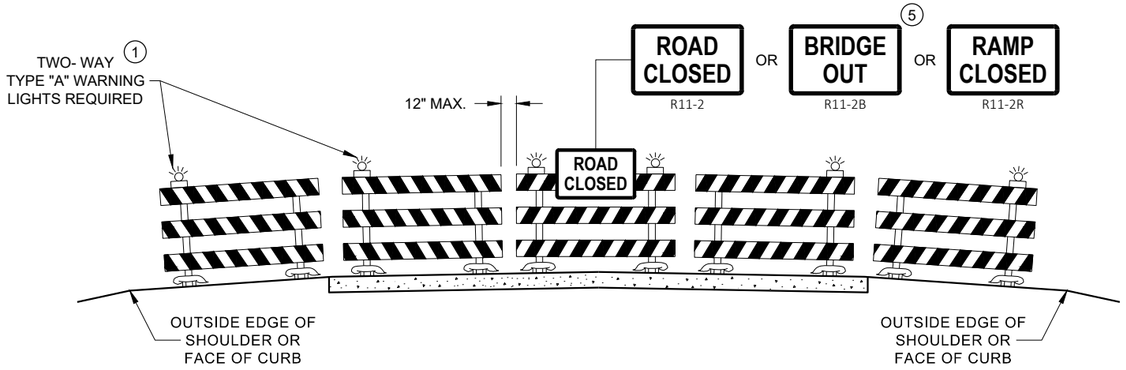
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February 2020
DATE

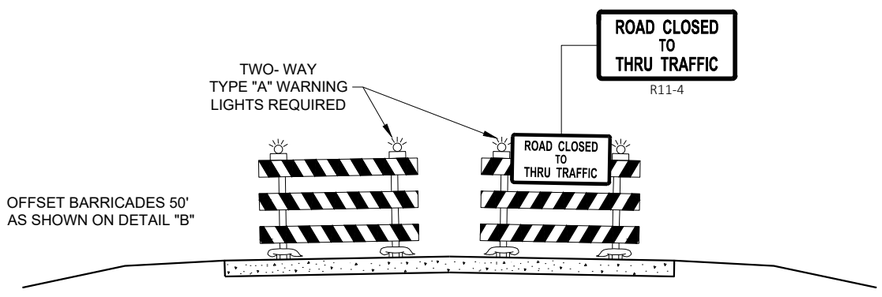
/S/ Andrew Heidtke
WORK ZONE ENGINEER

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SDD 15C02 - 08a



DETAIL D
ROAD CLOSURE BARRICADE DETAIL
APPROACH VIEW



DETAIL E
LANE CLOSURE BARRICADE DETAIL
APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

TYPE "A" LOW - INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11 - 2, R11 - 3, M4 - 9, R11 - 4, AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

"WO" AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11 - 2 SHALL BE 48" X 30"
- R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60 " X 30"
- M4 - 9 SHALL BE 30" X 24"
- M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1 - 1 SHALL BE 36" X 36"

(1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING.

(2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.

(3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".

(4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".

(5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.

(6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.

(7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

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SDD 15C02 - 08b

THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL DETOUR SIGN LAYOUT AND SPACING. SEE PROJECT DETOUR SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.

LEGEND

- SIGN ON PERMANENT SUPPORT
- WORK AREA
- DETOUR — M4 - 8
- EAST — M3 - X
- XX — M1 - 4 OR XX — M1 - 6 OR COUNTY X — M1 - 5A
- M05 - 1 OR M06 - 1 OR M06 - 1

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

THE SPACING BETWEEN TRAFFIC CONTROL AND DETOUR SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

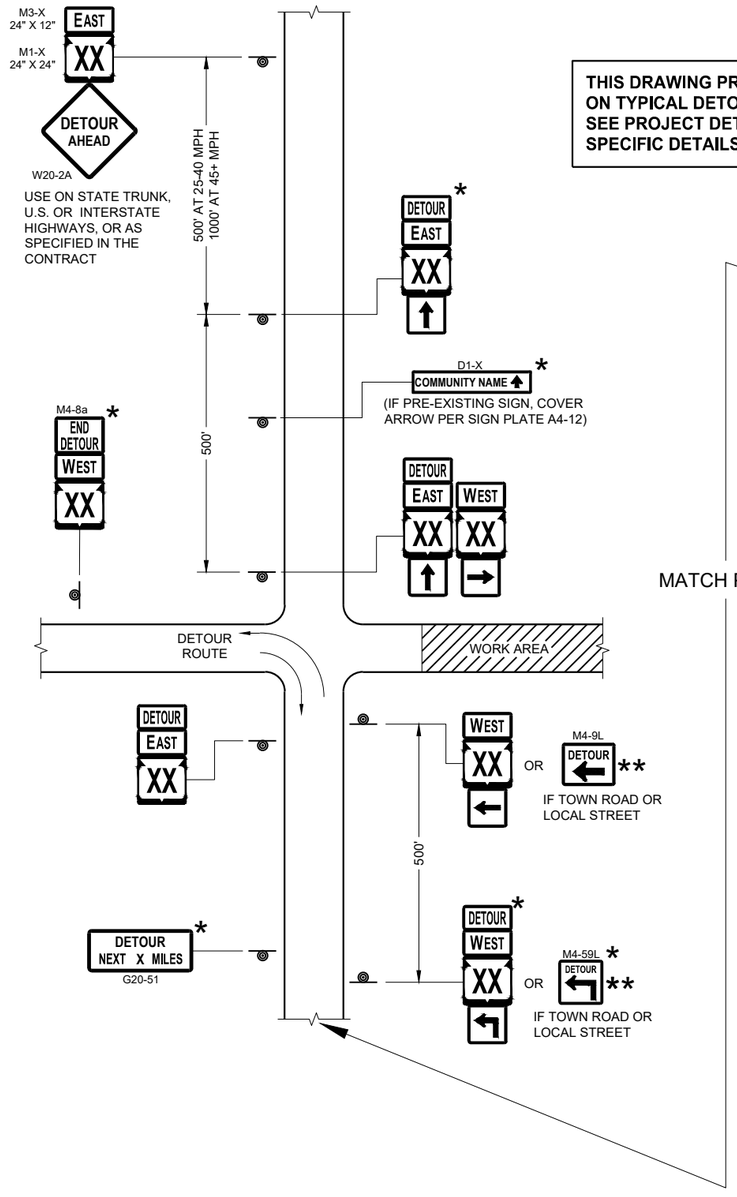
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

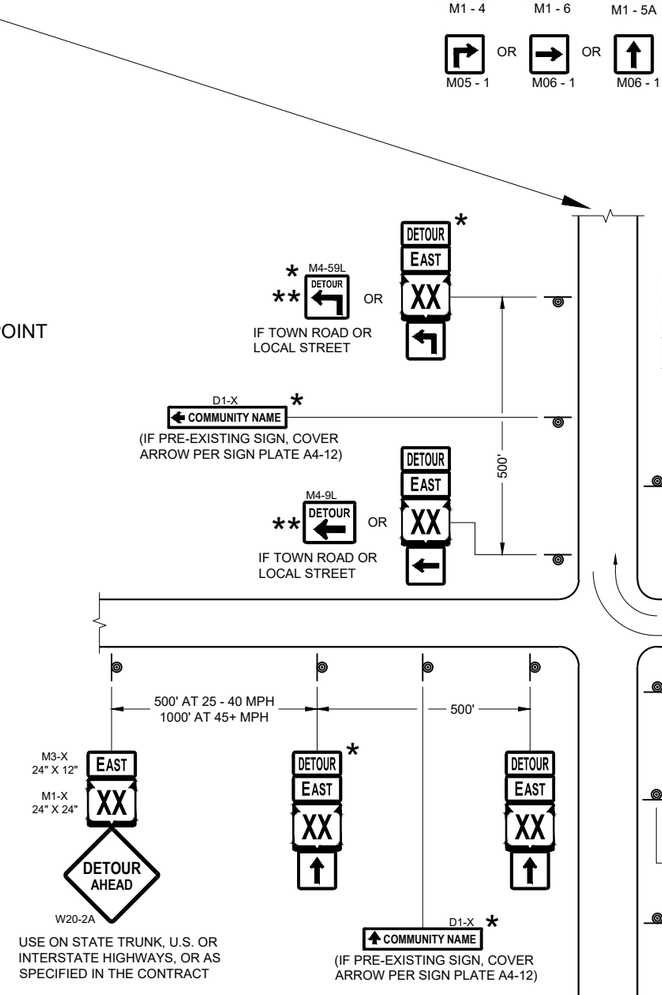
SIGN SIZES SHALL BE AS FOLLOWS:

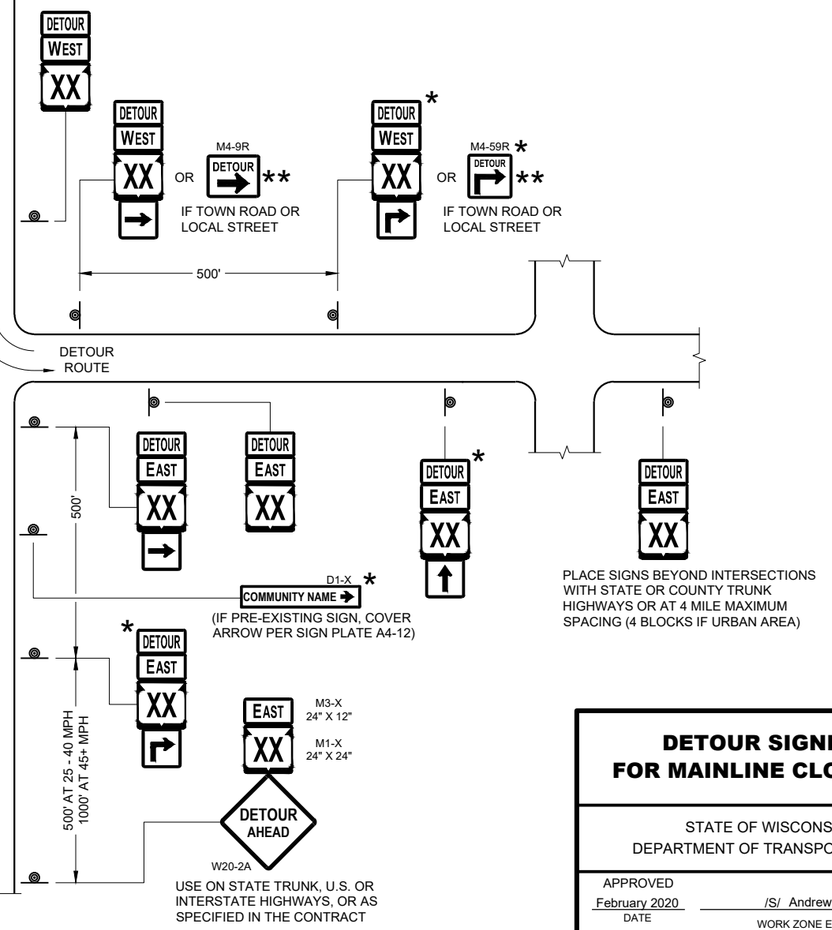
- M3-X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1-4, M1-5A AND M1-6 SHALL BE 24" X 24" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- M05-1 AND M06-1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-9 AND M4-59 SHALL BE 30" X 24"
- M4-8a SHALL BE 24" X 18"
- G20-51 SHALL BE 60" X 24"
- W20-2A SHALL BE 48" X 48"
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

* OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.

** FOR A TOWN ROAD OR LOCAL STREET DETOURED ONTO A STATE TRUNK HIGHWAY, PLACE A ROAD NAME PLAQUE ABOVE THE M4-9 SIGN AS SPECIFIED IN THE CONTRACT.







SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS AND DETAIL A OR B ON SDD SHEET 15C02 - SHEET "a"

DETAIL F
DETOUR SIGNING

DETOUR SIGNING FOR MAINLINE CLOSURES

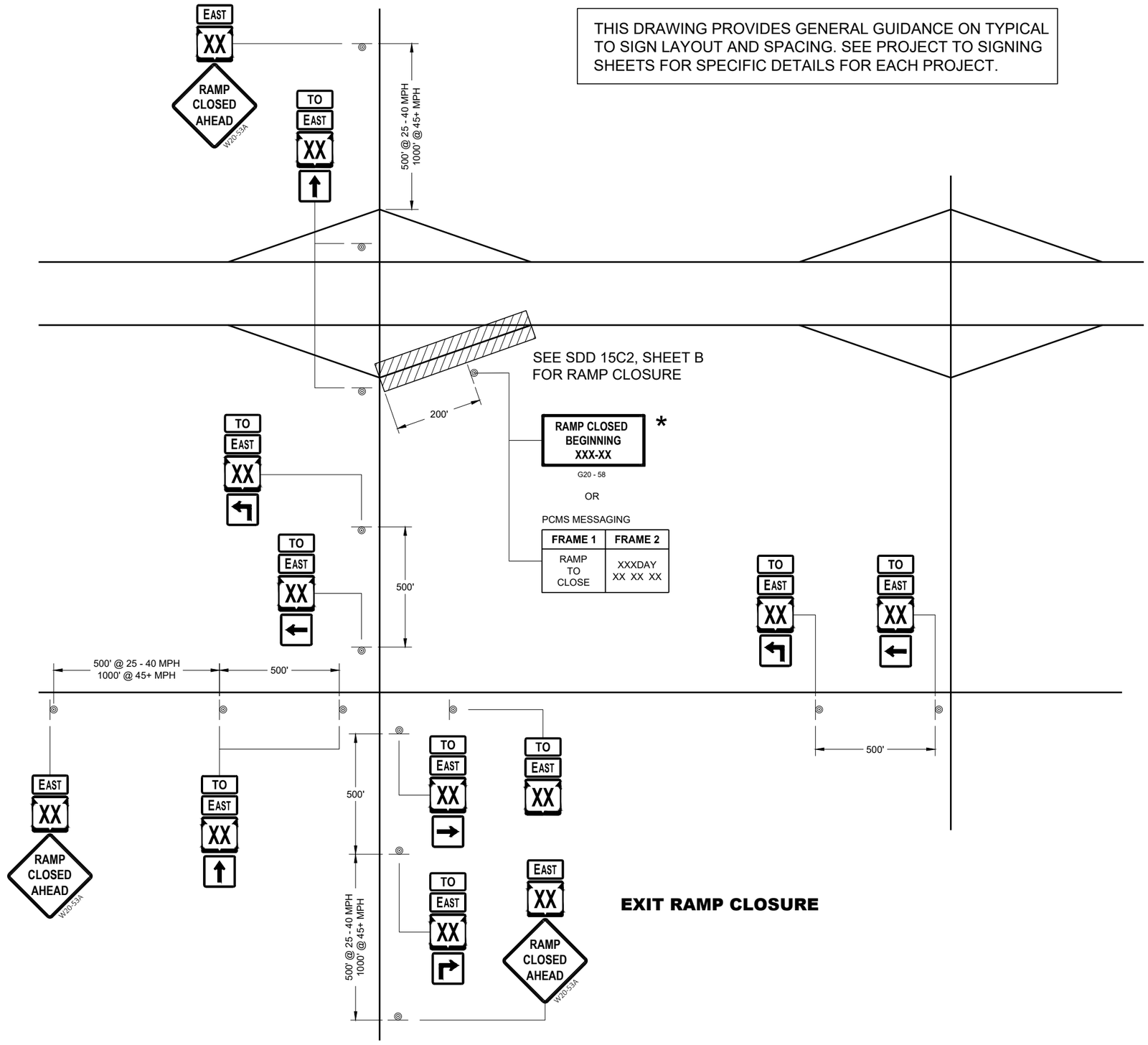
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

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SDD 15C02 - 08c



THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL TO SIGN LAYOUT AND SPACING. SEE PROJECT TO SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.

LEGEND

SIGN ON PERMANENT SUPPORT

TO EAST — MO4 - 5, M3 - X

XX M1 - 6 OR XX M1 - 4 OR INTERSTATE XX M1 - 1

M05 - 1 OR M06 - 1 OR M06 - 1

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

IF THERE ARE ANY ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE TO ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT TO SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

THE SPACING BETWEEN TRAFFIC CONTROL AND TO SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL " IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

SIGNS THAT SHALL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOW:
- M3 - X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS).
- MO4 - 5 SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS).
- M1 - 1, M1 - 4, AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS).
- MO5 - 1, MO5 - 2, AND MO6 - 1, SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS).
- W20 - 53A SHALL BE 48" X 48"

* PLACE "RAMP CLOSED BEGINNING" SIGN 7 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY THE ENGINEER. SEE WISCONSIN STANDARD SIGN PLATES FOR LAYOUT.

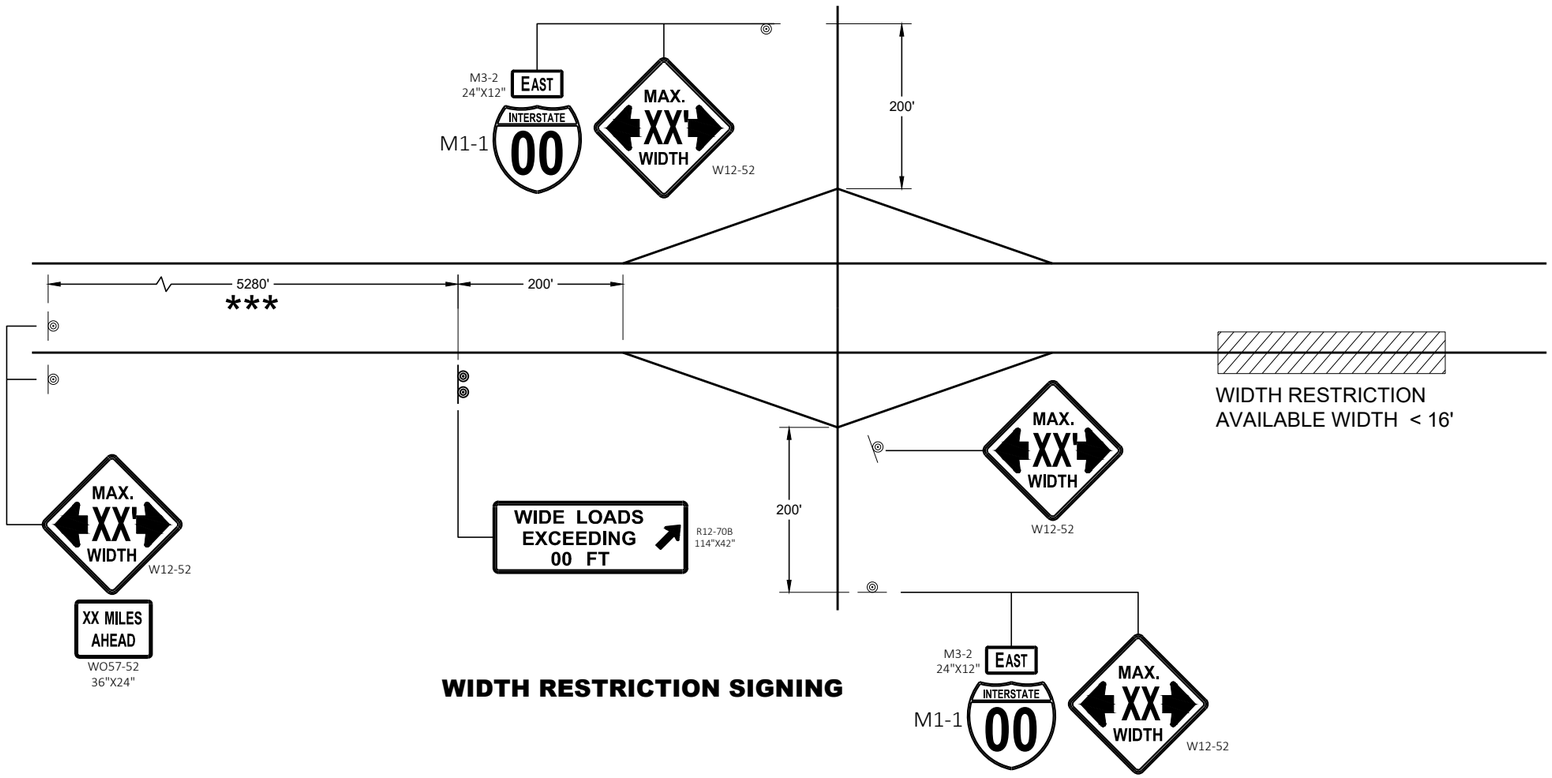
EXIT RAMP CLOSURE

ON RAMP LANE CLOSURE

STATE OF WISCONSIN
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/S/ Andrew Heidtke — WORK ZONE ENGINEER
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WIDTH RESTRICTION SIGNING

LEGEND

SIGN ON PERMANENT SUPPORT

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL " IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

WIDTH ON SIGN TO BE APPROXIMATELY ONE FOOT LESS THAN AVAILABLE WIDTH.

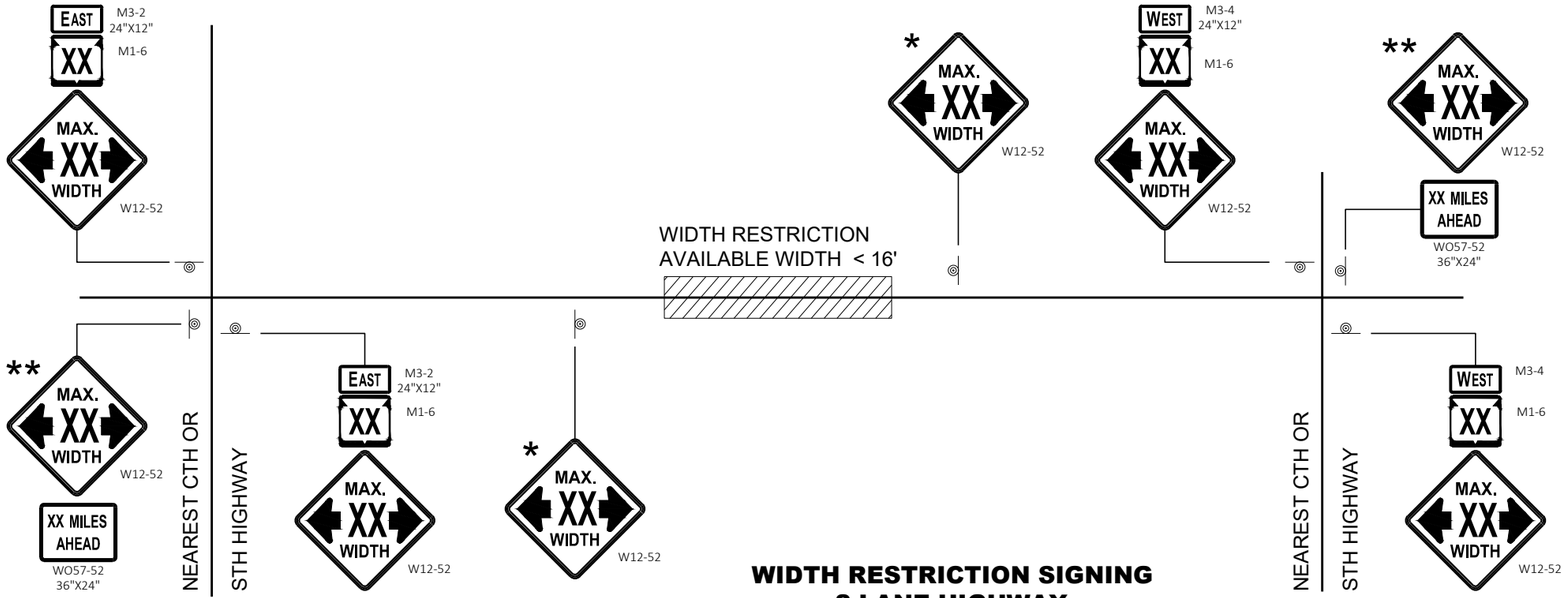
* PLACE 500 FEET AFTER THE W20 - 1A AND 500 FEET BEFORE ADDITIONAL SIGNS FOR ROADWAYS WITH A PRE - CONSTRUCTION SPEED LIMIT OF 45 MPH OR MORE. FOR 35-40 MPH, USE 350 FOOT TYPICAL SPACING. FOR 25-30 MPH, USE 200 FOOT TYPICAL SPACING.

** SIGN SHALL BE VISIBLE FROM ROADWAY.

*** ADDITIONAL SIGNS NEEDED IF THERE IS AN ON RAMP BETWEEN SIGNS.



WIDTH ON SIGN TO BE APPROX. 1 - FOOT LESS THAN AVAILABLE WIDTH



WIDTH RESTRICTION SIGNING
2 LANE HIGHWAY

ADVANCED WIDTH RESTRICTION SIGNING

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DEPARTMENT OF TRANSPORTATION

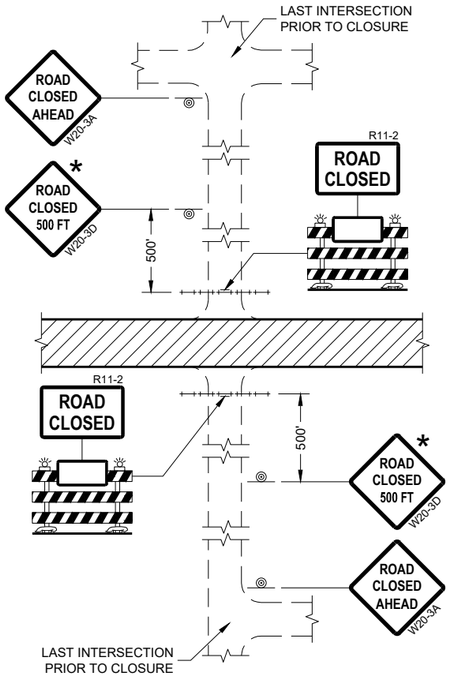
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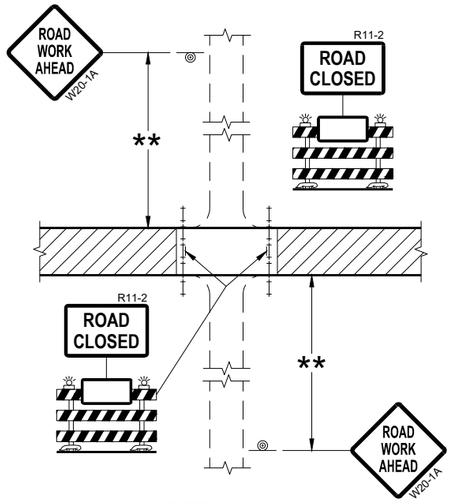
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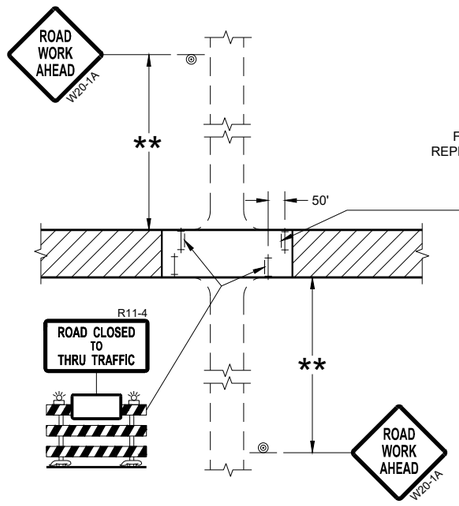
SDD 15C02 - 08f



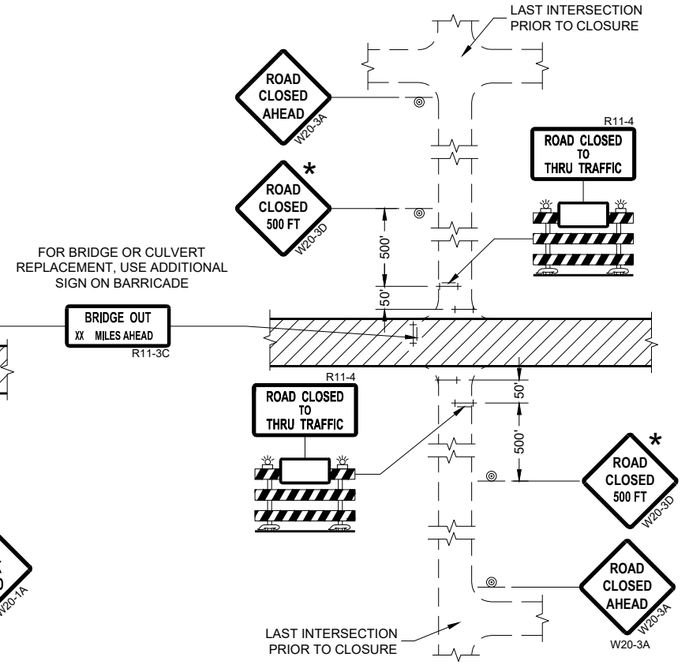
DETAIL 1
(NO ACCESS TO PROJECT)



DETAIL 2
(PUBLIC CROSS-TRAFFIC MAINTAINED.
NO ACCESS TO PROJECT)



DETAIL 3
(PUBLIC CROSS-TRAFFIC MAINTAINED.
CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)



DETAIL 4
(CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE (500 FEET DESIRABLE) TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3, AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

* OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FEET OR LESS FROM THE WORK ZONE.

** 500' MAX. OR AT LAST INTERSECTION, WHICHEVER IS CLOSEST.

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

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SDD 15C03 - 05

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

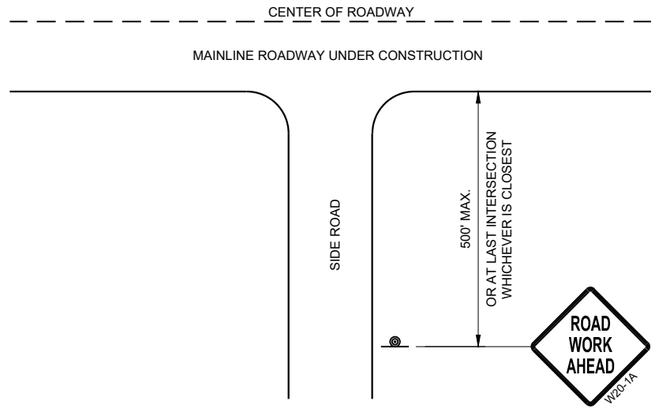
ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED.

* OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS

** PLACE AN ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.



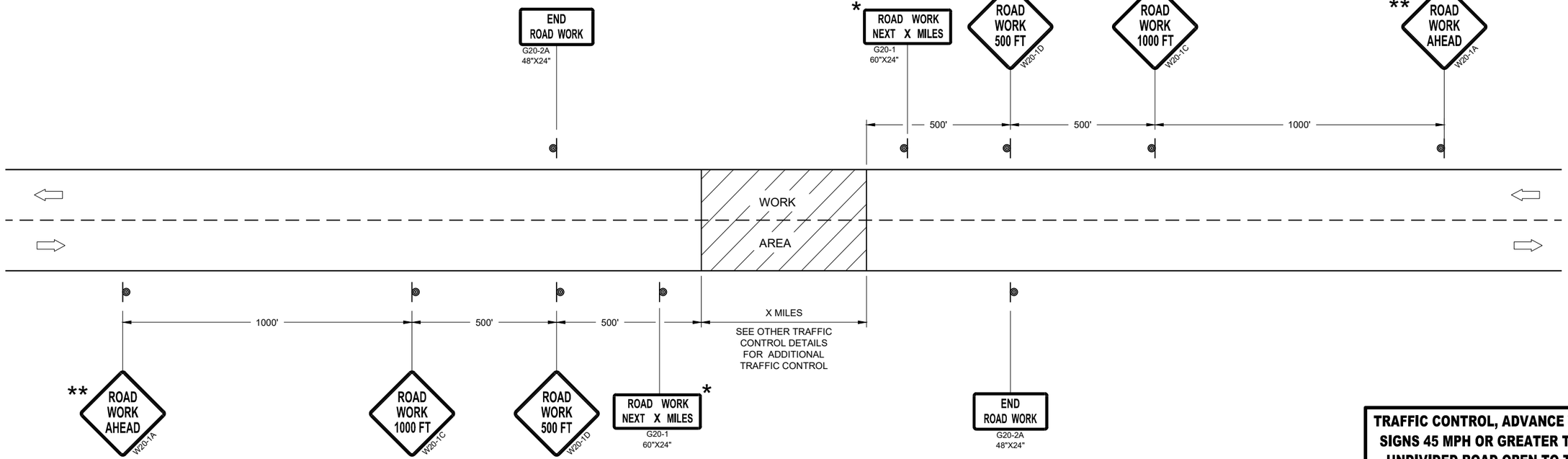
TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA



TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45MPH OR GREATER

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
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APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

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SDD 15C04 - 05

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

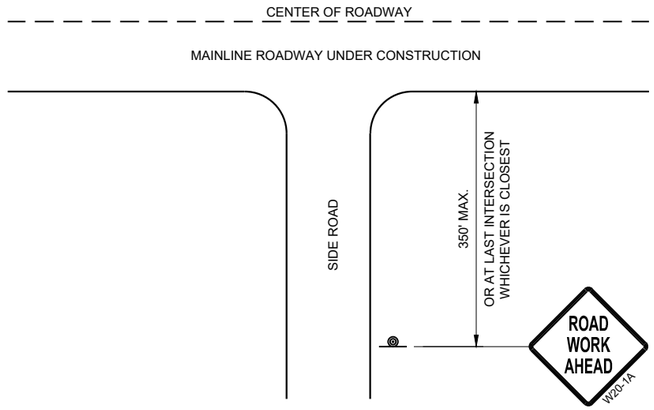
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"X36" SIGNS MAY BE USED INSTEAD OF 48" X 48" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED.

* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FEET" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.



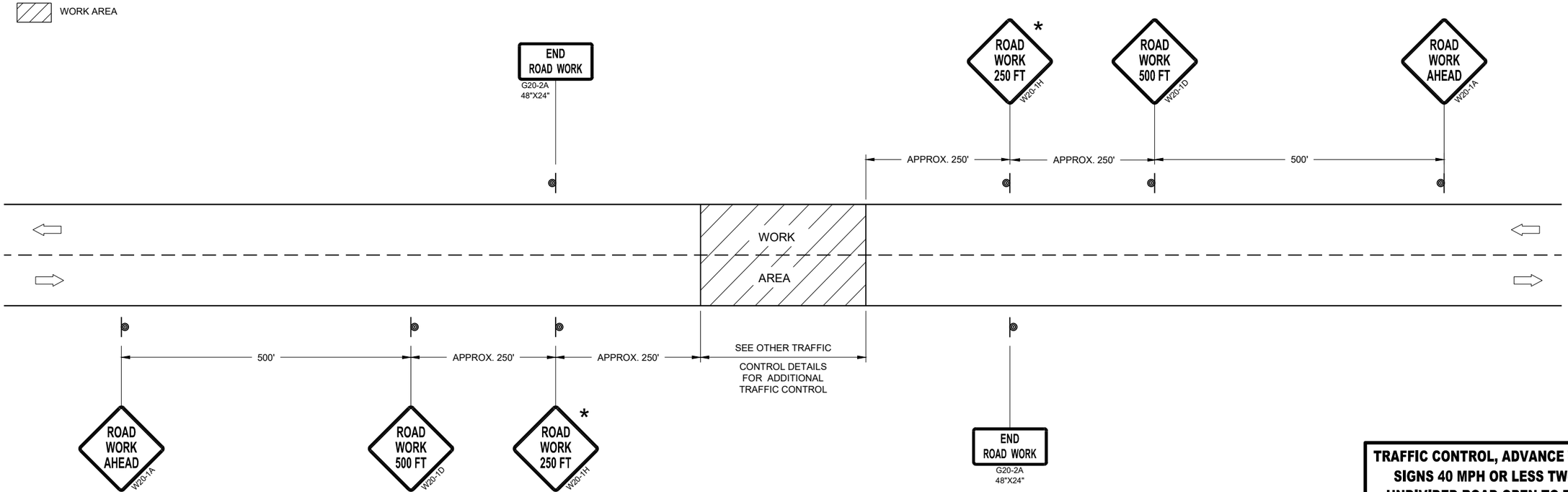
TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA



TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40MPH OR LESS

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 MPH OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

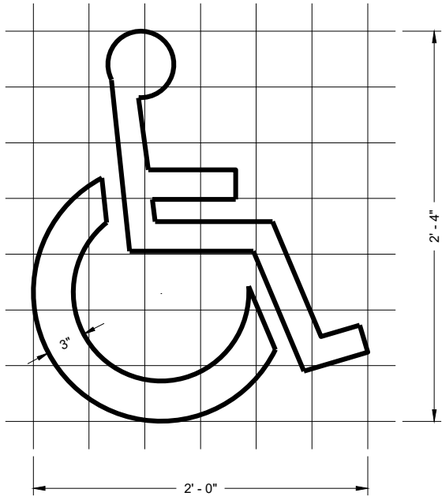
FHWA

6

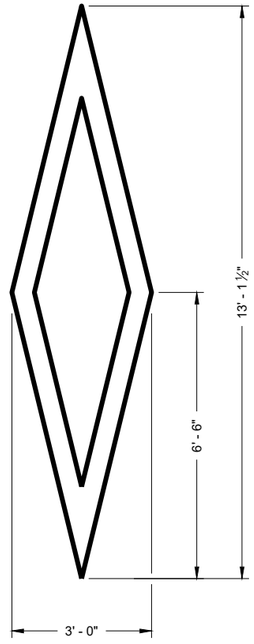
SDD 15C05 - 05

GENERAL NOTES

DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



HANDICAP SYMBOL



PREFERENTIAL LANE SYMBOL

6

6

SDD 15C07 - 15a

SDD 15C07 - 15a

PAVEMENT MARKING SYMBOLS

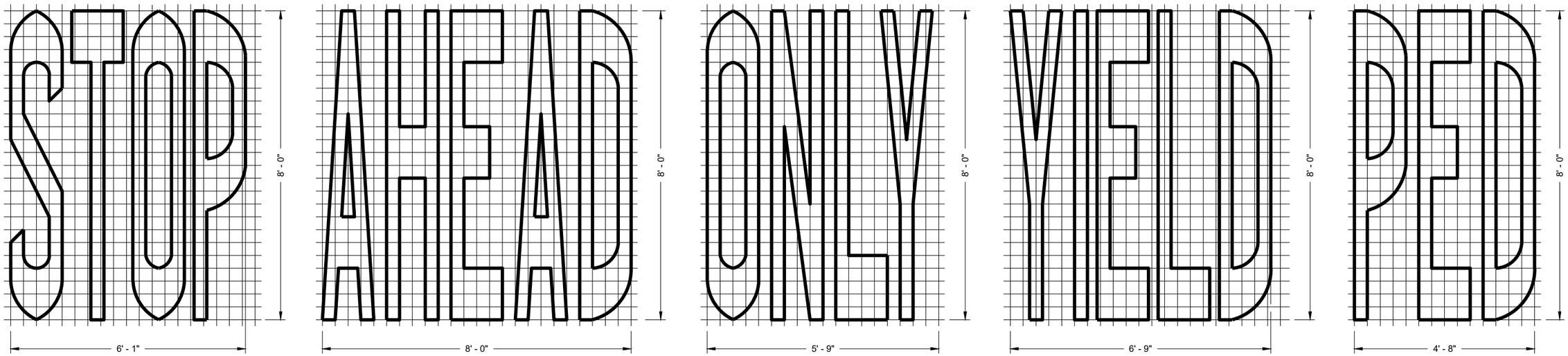
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

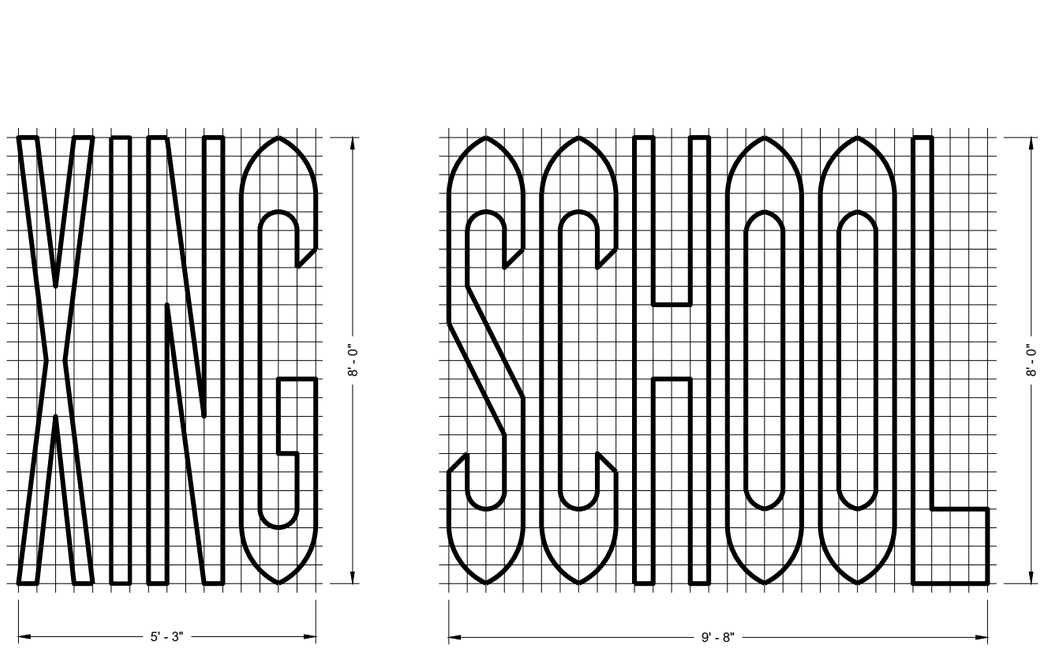
APPROVED

November 2019
DATE

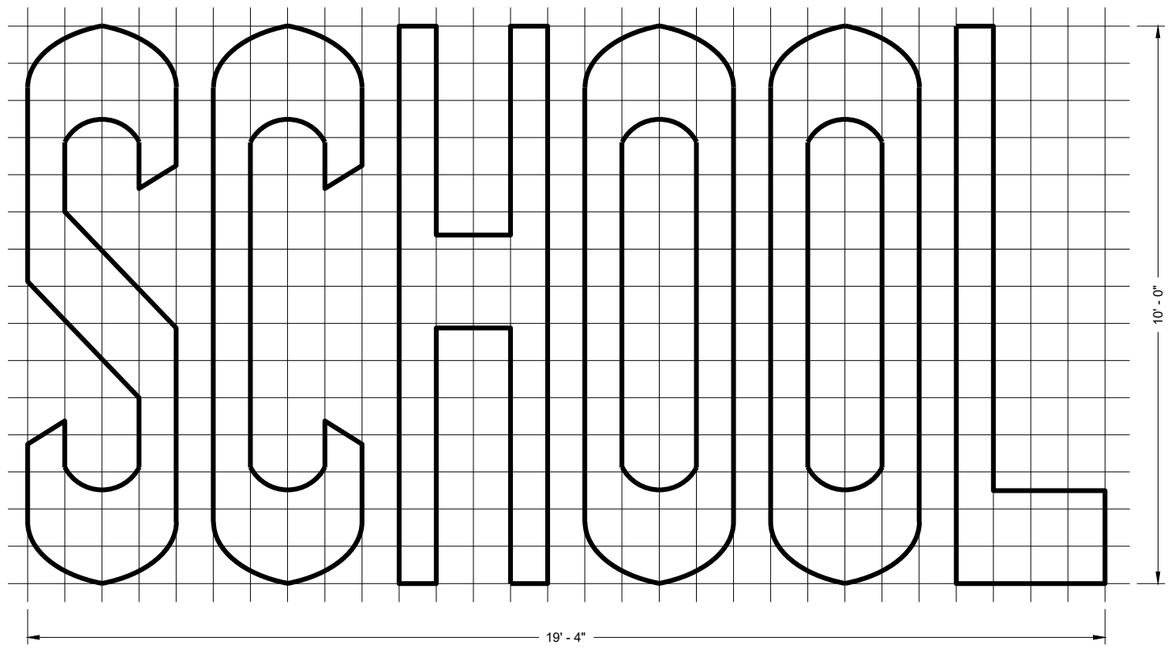
/S/ Matthew Rauch
STATE SIGNING AND MARKING ENGINEER

FHWA





SINGLE LANE



TWO - LANE

GENERAL NOTES

DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

/S/ Matthew Rauch
STATE SIGNING AND MARKING ENGINEER

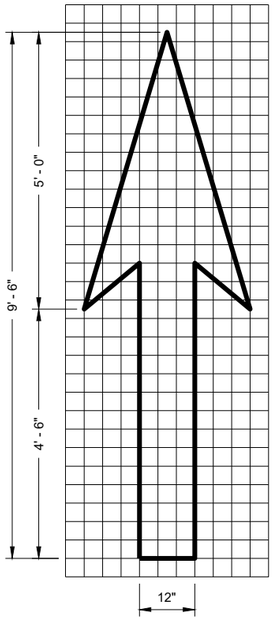
FHWA

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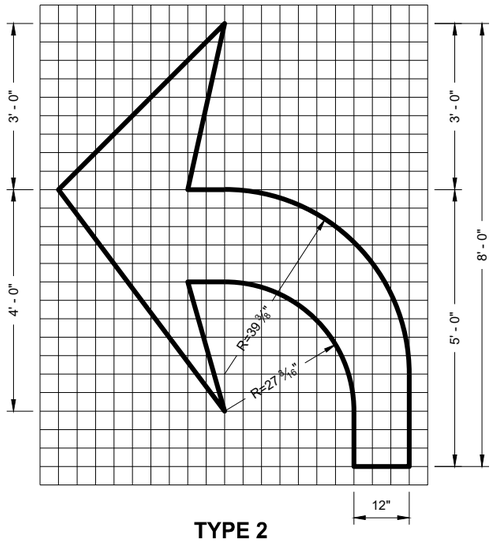
SDD 15C07 - 15b

GENERAL NOTES

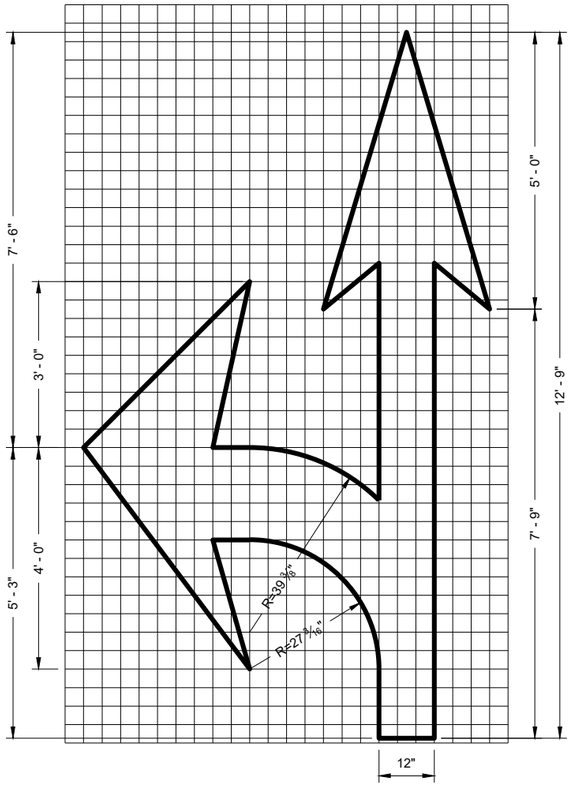
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



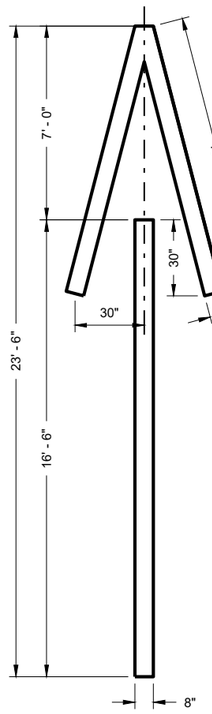
TYPE 1



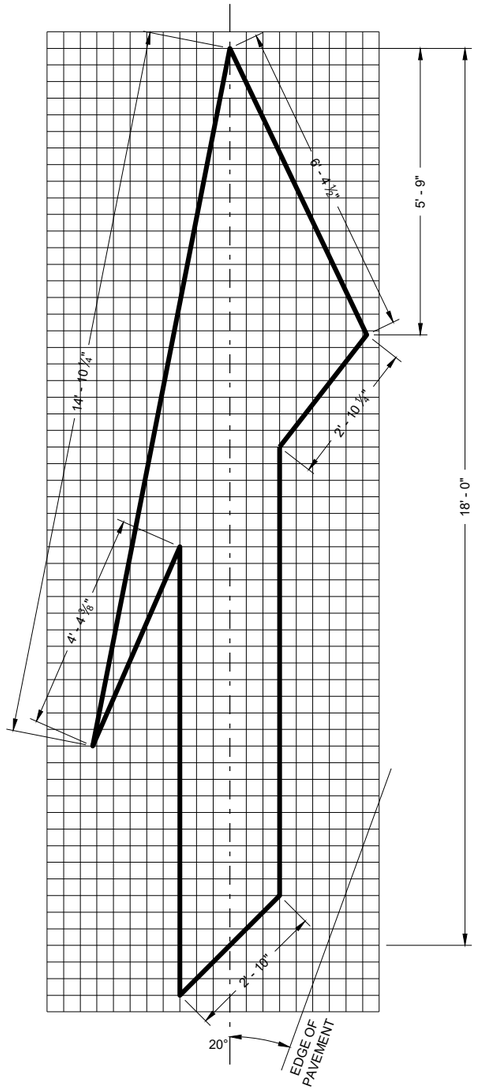
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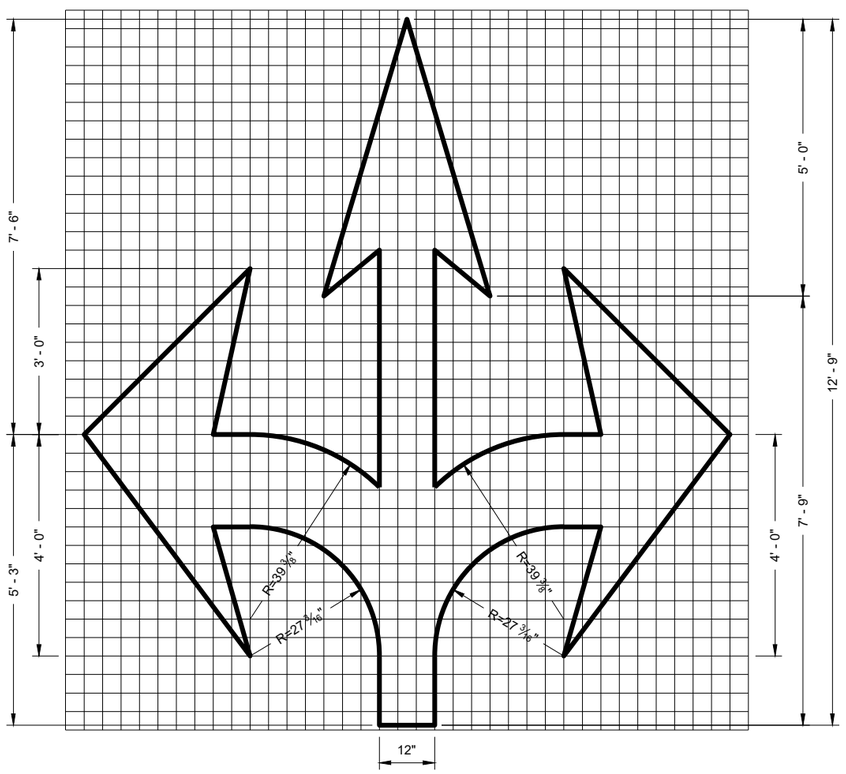
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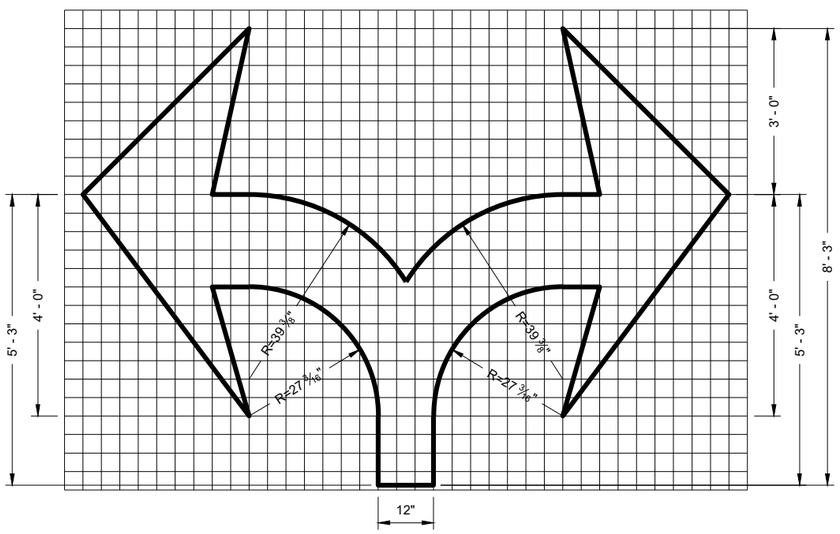
TYPE 4



TYPE 5 LANE DROP ARROW



TYPE 6



TYPE 7

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

/S/ Matthew Rauch
STATE SIGNING AND MARKING ENGINEER

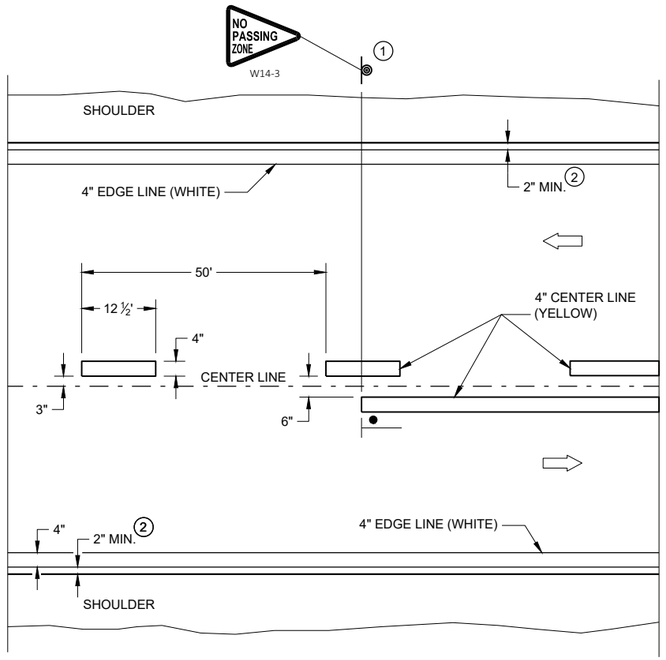
FHWA

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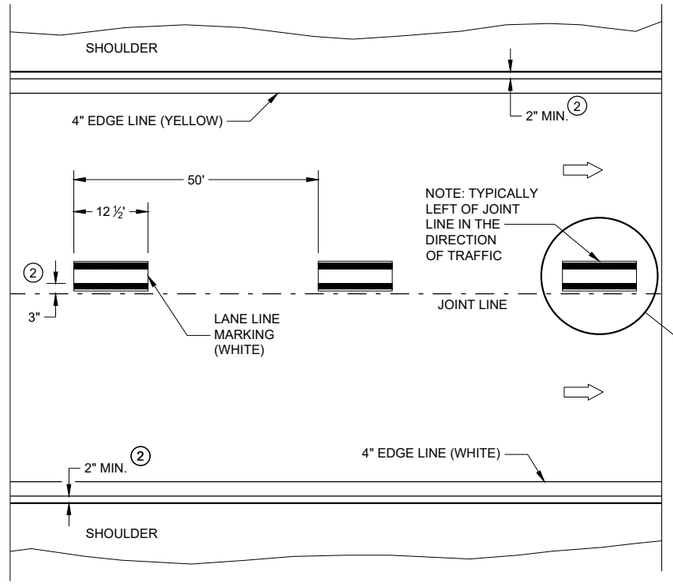
SDD 15C07 - 15c

6

SDD 15C07 - 15c

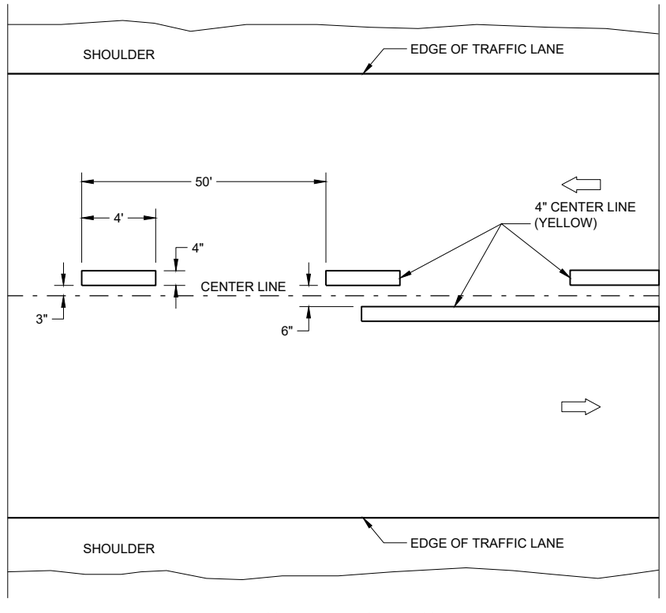


TWO WAY TRAFFIC

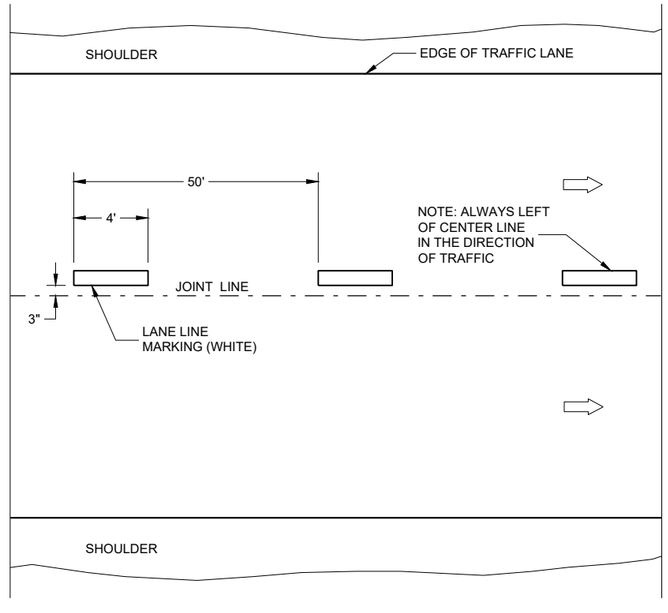


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

GENERAL NOTES

DETAILS OF CONSTRUCTION NO SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

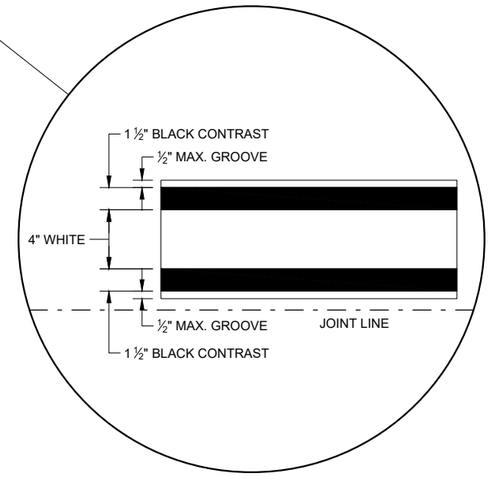
1. LOCATE THE NO PASSING ZONE W14-3 SIGN WITH 50 FEET OF THE "T" MARKING
2. MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

LEGEND

"T" MARKING

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC



LONGITUDINAL MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE

/S/ Matthew Rauch
STATEWIDE SIGNING AND MARKING ENGINEER

FHWA

6

SDD 15C08 - 20a

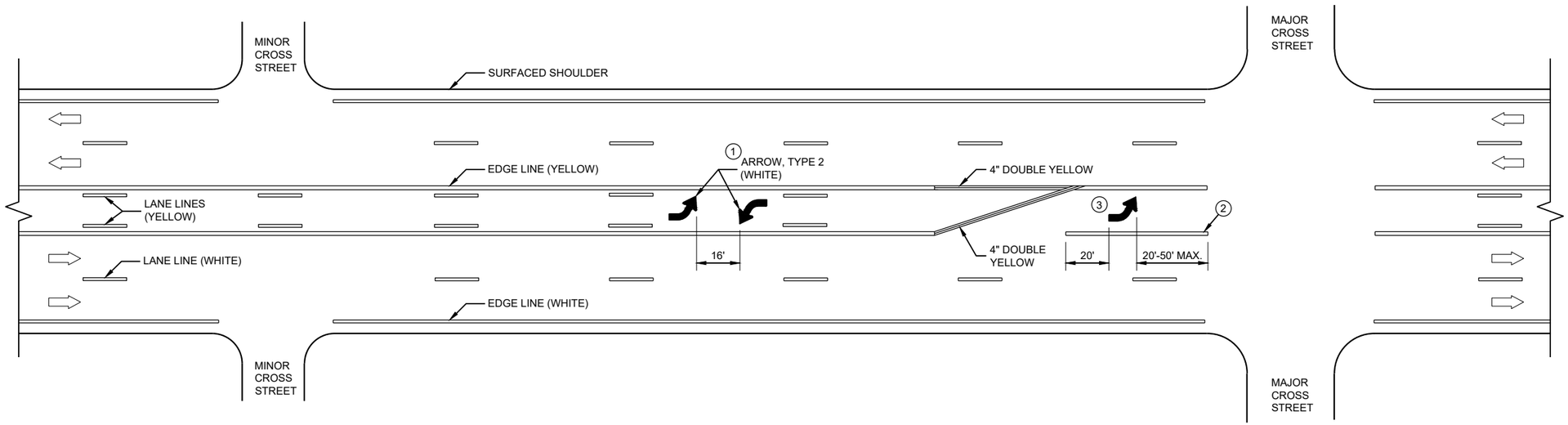
6

SDD 15C08 - 20a

GENERAL NOTES

1. A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
2. 8" WHITE
3. TURN BAY LENGTH OF LESS THAN 48' DOES NOT REQUIRE PAVEMENT ARROWS OR TEXT.

DIRECTION OF TRAFFIC



TWO WAY LEFT TURN LANE

6

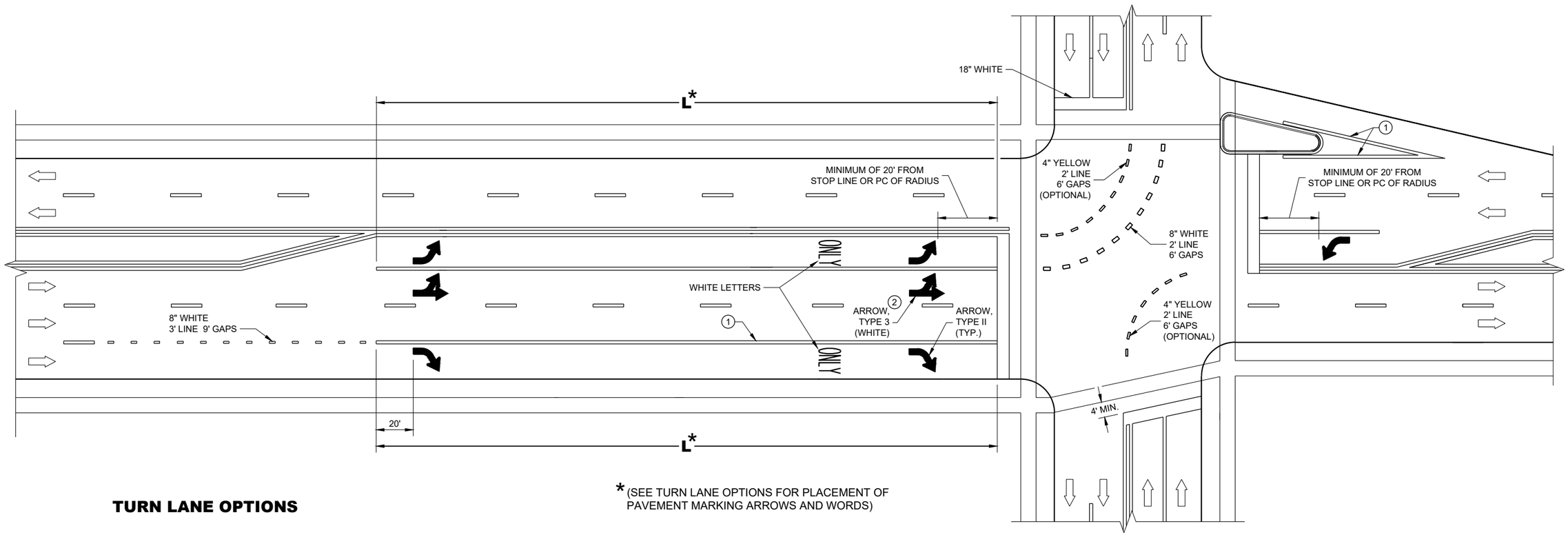
6

SDD 15C08 - 20b

SDD 15C08 - 20b

PAVEMENT MARKING (TURN LANES)

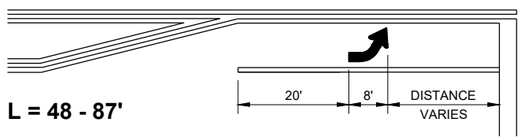
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



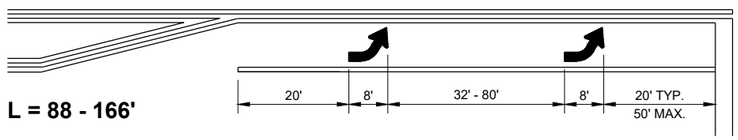
* (SEE TURN LANE OPTIONS FOR PLACEMENT OF PAVEMENT MARKING ARROWS AND WORDS)

TURN LANE OPTIONS

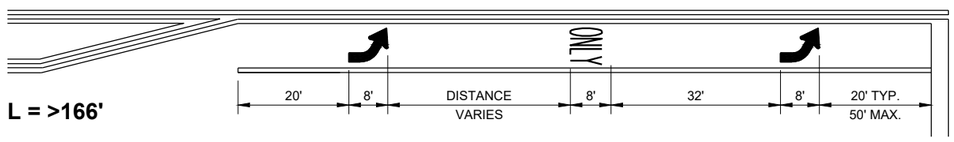
LENGTH OF TURN BAY (**L**) OF 0 - 47' DOES NOT REQUIRE PAVEMENT MARKING ARROWS OR WORDS



L = 48 - 87'



L = 88 - 166'



L = >166'

GENERAL NOTES

1. 8" WHITE
2. QUANTITY AND LOCATION OF TYPE 3 ARROWS ARE THE SAME AS THE TYPE II ARROWS IN THE ADJACENT TURN LANE. FOR TURN LANES WITH A PHYSICAL SEPARATION IN THE SAME DIRECTION OF TRAVEL, THE ARROWS AND "ONLY" MARKING MAY BE ELIMINATED.

DIRECTION OF TRAFFIC

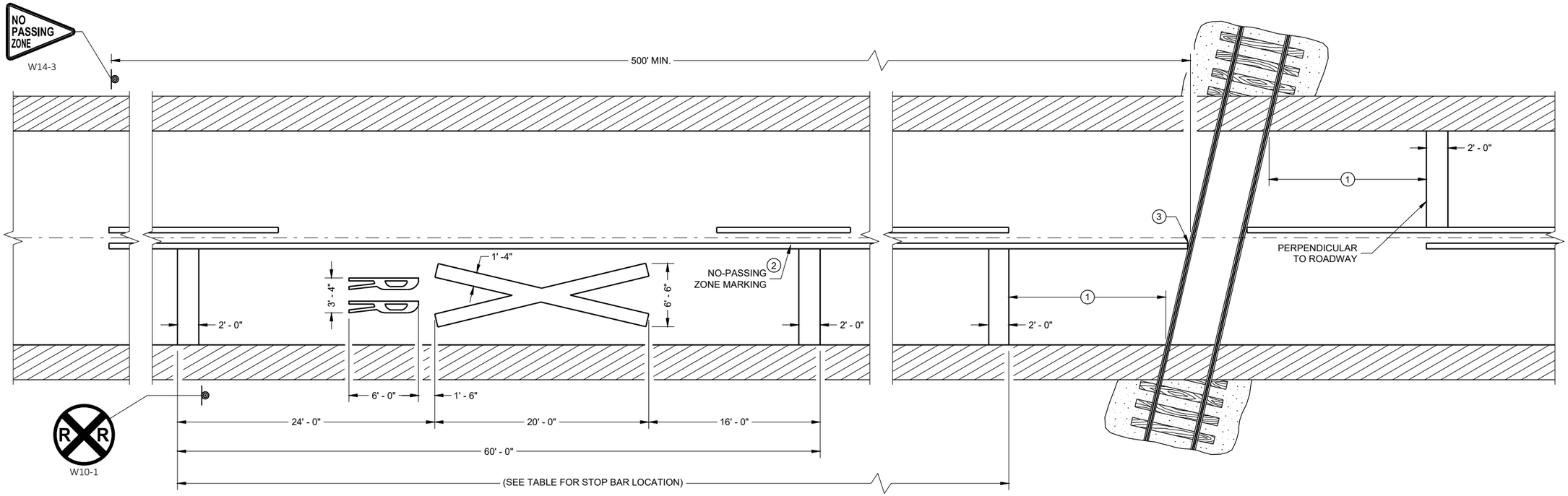
L = LENGTH OF TURN BAY

PAVEMENT MARKING (TURN LANES)

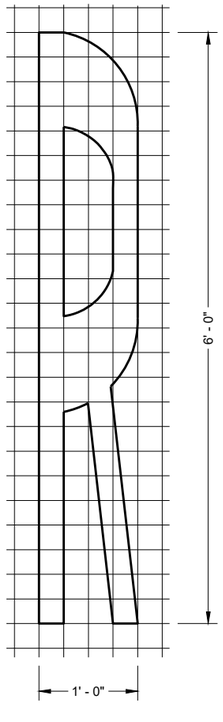
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 15C08 - 20c



PAVEMENT MARKING



LEGEND

SIGN ON PERMANENT SUPPORT

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

ON MULTI-LANE ROADS THE TRANSVERSE BANDS SHOULD EXTEND ACROSS ALL APPROACH LANES, AND INDIVIDUAL R X R SYMBOLS SHOULD BE USED IN EACH APPROACH LANE.

CENTER OR LANE LINES AND NO-PASSING ZONE MARKINGS SHOWN ON THIS DRAWING ARE REQUIRED AND PAID FOR UNDER OTHER ITEMS IN THE CONTRACT.

TRACE EXISTING SYMBOL WHERE EXISTING SYMBOLS ARE PLACED.

(1) MINIMUM 8' FROM ANY RAILROAD WARNING DEVICES (SIGNAL , GATES, ETC.) OR 25' FROM THE NEAREST RAIL, WHICHEVER DISTANCE IS GREATER.

(2) 500' MINIMUM. MARKING LIMITS MAY BE EXTENDED AS DIRECTED BY THE ENGINEER TO MEET ADJACENT NO-PASSING ZONE MARKINGS.

(3) FOR MULTIPLE TRACK CROSSINGS, THE BARRIER LINE SHALL EXTEND TO THE NEAR RAIL OF THE FURTHEST TRACK IN THE DIRECTION OF HIGHWAY TRAVEL.

DISTANCE TABLE

TABLE BASED UPON 2C-4 WISCONSIN SUPPLEMENT OF MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

POSTED SPEED (M.P.H.)	DIMENSION RANGE (FEET)
25	150* - 250'
30	200* - 300'
35	250* - 450'
40	300* - 500'
45	400* - 650'
50	550* - 800'
55	750* - 1000'
60	1000* - 1250'
65	1000* - 1250'

* THE MINIMUM DISTANCES IN THE TABLE ARE DESIRABLE AND SHOULD BE USED. THE DISTANCES MAY BE INCREASED UP TO THE MAXIMUM TO ALLOW FOR FIELD CONDITIONS SUCH AS THE CLOSED PROXIMITY OF DRIVEWAYS, BRIDGES, SIDE ROADS OR OTHER FEATURES THAT WOULD PROHIBIT THE MINIMUM DISTANCES FROM BEING USED.

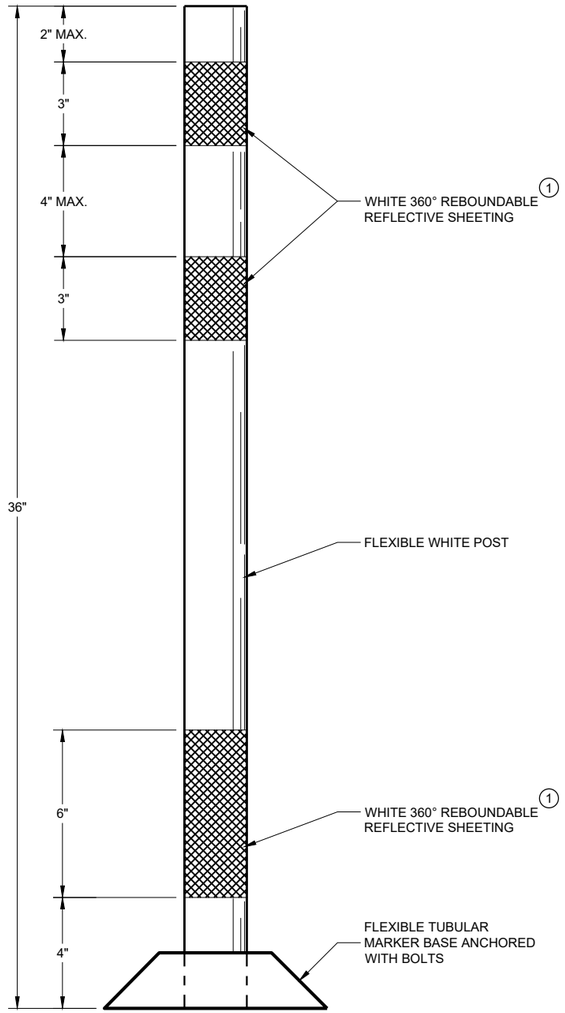
SIGNING AND PAVEMENT MARKING DETAILS FOR RAILROAD - HIGHWAY GRADE CROSSINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

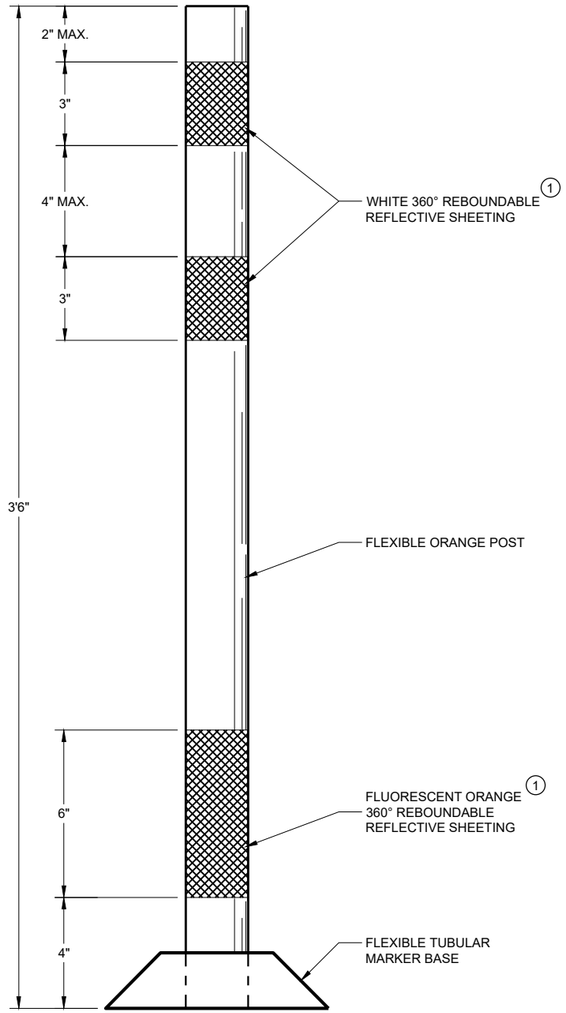
APPROVED
February 2021
DATE

/S/ Matthew R. Rauch
STATE SIGNING AND MARKING ENGINEER

FHWA



FLEXIBLE TUBULAR MARKER POST PERMANENT CROSSOVER



FLEXIBLE TUBULAR MARKER POST WORK ZONE

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

SURFACE MOUNTED BASES SHALL BE FURNISHED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS TO BE COMPATIBLE WITH FLEXIBLE TUBULAR MARKER POSTS TO A SIZE AND SHAPE THAT WILL PROVIDE A STABLE POST FOUNDATION WHEN SECURED TO THE PAVEMENT.

THE ASPHALTIC ADHESIVE OR BUTYL PAD FURNISHED SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS, UNLESS DIRECTED BY THE ENGINEER TO USE BOLTS.

(1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

6

SDD 15C11 - 08a

CHANNELIZING DEVICES
FLEXIBLE TUBULAR MARKER POST

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

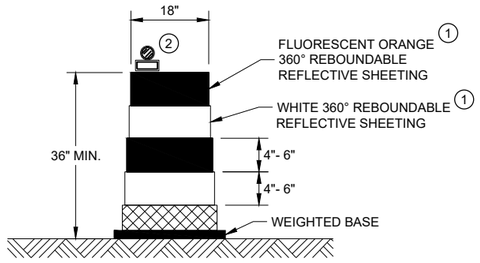
FHWA

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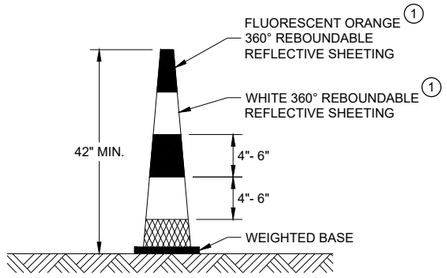
SDD 15C11 - 08a

GENERAL NOTES

1. REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
2. LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.

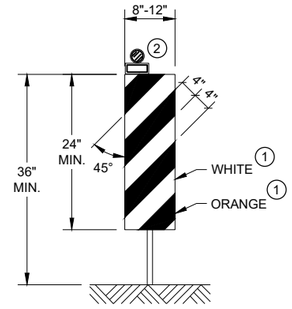


DRUM



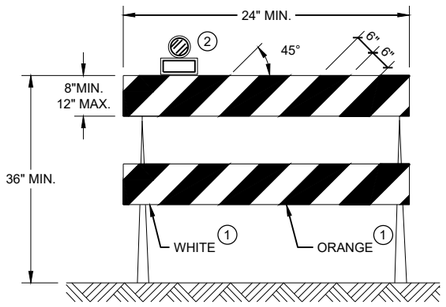
42" CONE

DO NOT USE IN TAPERS
½ SPACING OF DRUMS



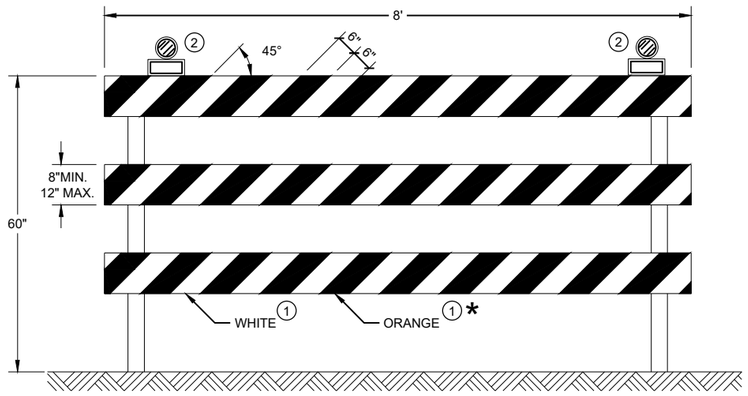
VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO
THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES
MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD
TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE III BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP
TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES
DRUMS, CONES, BARRICADES
AND VERTICAL PANELS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

6

SDD 15C11 - 08b

LEGEND

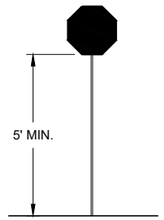
SIGN ON PORTABLE OR PERMANENT SUPPORT

TEMPORARY PORTABLE RUMBLE STRIP ARRAY

DIRECTION OF TRAFFIC

WORK AREA

FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF



STOP/SLOW PADDLE ON SUPPORT STAFF

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS, DEVICES, AND LOCATION OF ALL FLAGGERS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

FLAGGING

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT REMOVE TEMPORARY PORTABLE RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

(1) FOR MOVING WORK OPERATIONS, POST ADDITIONAL W20-7A FLAGGER SIGNS AT APPROXIMATELY 3,500' INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.

(2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

WHEN THE DISTANCE BETWEEN FLAGGERS EXCEEDS 2 MILES, A PILOT CAR IS REQUIRED. WHEN CURVES REDUCE SIGHT DISTANCE BELOW 400', A PILOT CAR IS REQUIRED.

TEMPORARY PORTABLE RUMBLE STRIPS

UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS.

(3) EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN.

ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FOR THE APPROVED PRODUCTS LIST.

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.

PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

DO NOT INSTALL TEMPORARY PORTABLE RUMBLE STRIPS ON GRAVEL, MILLED SURFACES, OR ASPHALT THAT HAS BEEN PAVED LESS THAN 12 HOURS.

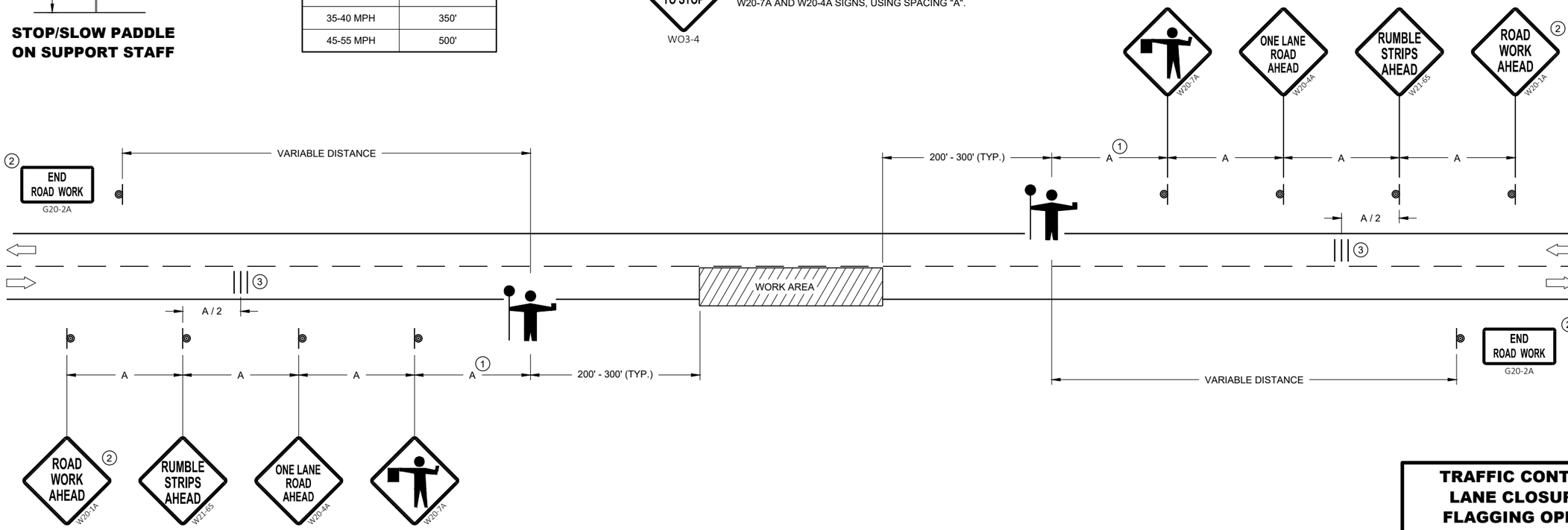
SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

SPEED LIMIT	SPACING "A"
25-30 MPH	200'
35-40 MPH	350'
45-55 MPH	500'



WO3-4

USE OF WO3-4 SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7A AND W20-4A SIGNS, USING SPACING "A".



TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

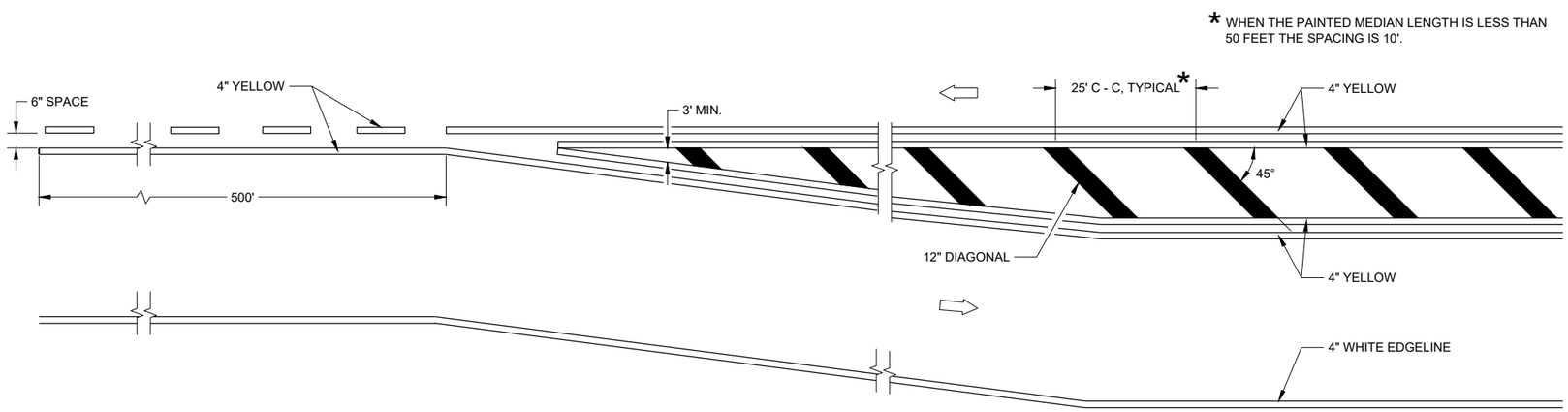
APPROVED
May 2019
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

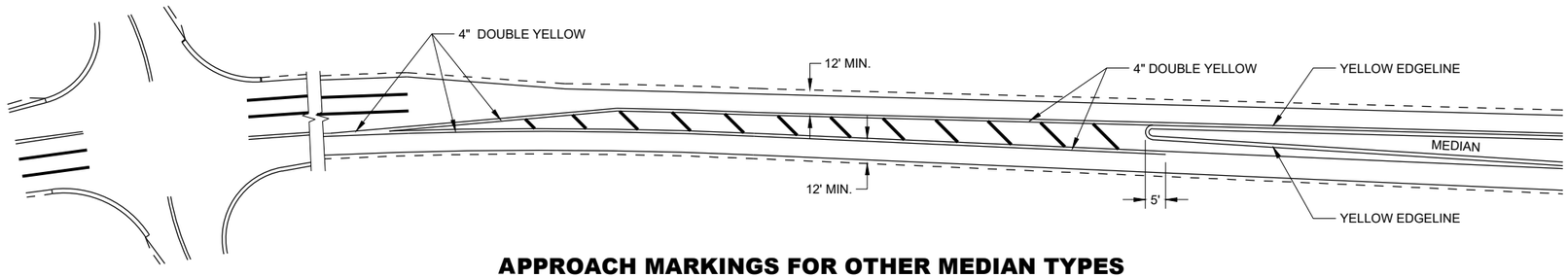
FHWA

6

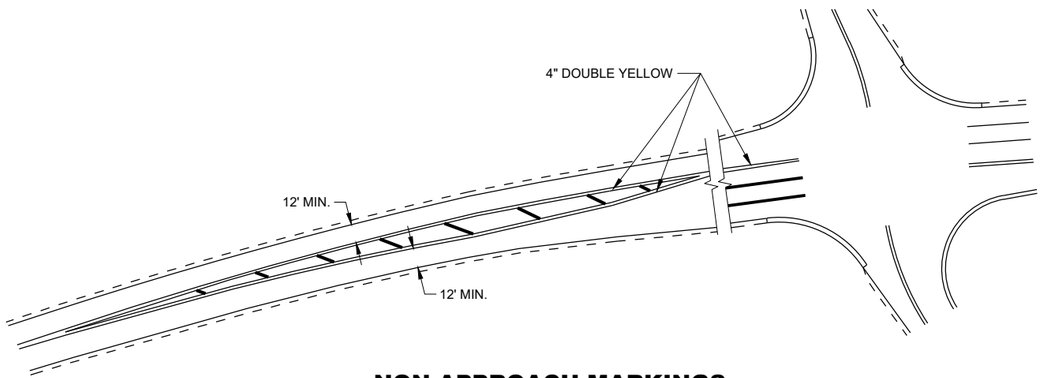
SDD 15C12 - 07



MEDIAN ISLAND DETAIL



APPROACH MARKINGS FOR OTHER MEDIAN TYPES



NON-APPROACH MARKINGS

GENERAL NOTES

DIAGONALS ARE OPTIONAL WHEN PAINED ISLAND IS LESS THAN 6 FEET AT WIDEST POINT.

DIRECTION OF TRAVEL

6

6

SDD 15C18 - 05a

SDD 15C18 - 05a

MEDIAN ISLAND PAVEMENT MARKINGS

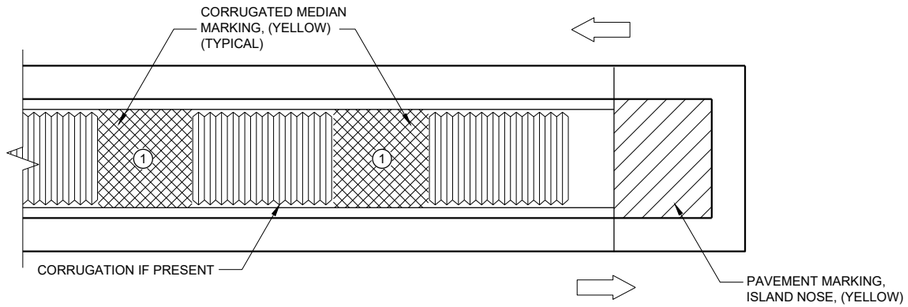
STATE OF WISCONSIN
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APPROVED

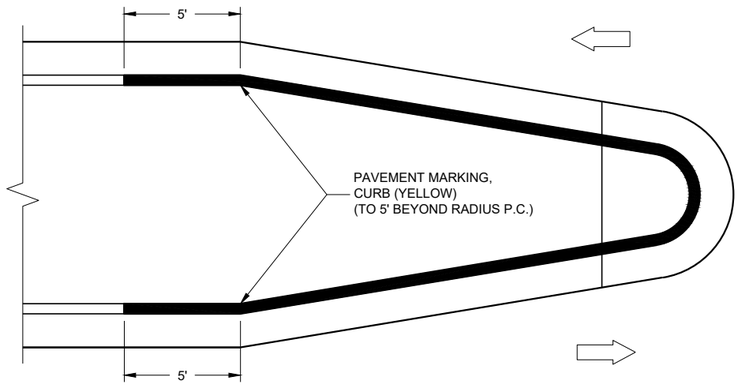
February 2021
DATE

/S/ Matthew R. Rauch
STATE SIGNING AND MARKING ENGINEER

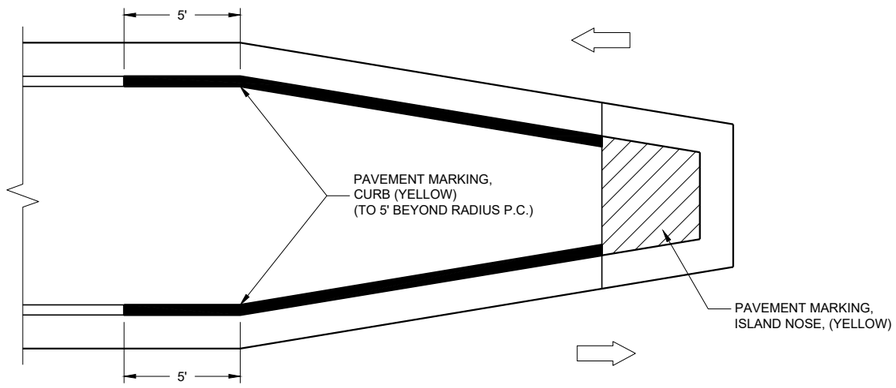
FHWA



MEDIAN ISLAND WITH SQUARE BLUNT NOSE



MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS

GENERAL NOTES

WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION, YELLOW PAVEMENT MARKING SHALL BE APPLIED TO THE FLAT PORTION OF THE CONCRETE CORRUGATED MEDIAN. THE ITEM OF PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, WILL BE MEASURED IN PLACE AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.

ISLAND NOSE MARKING

CURB MARKING

CORRUGATED MEDIAN MARKING

DIRECTION OF TRAVEL

**PAVEMENT MARKINGS,
MEDIAN ISLAND NOSE**

STATE OF WISCONSIN
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February 2021
DATE

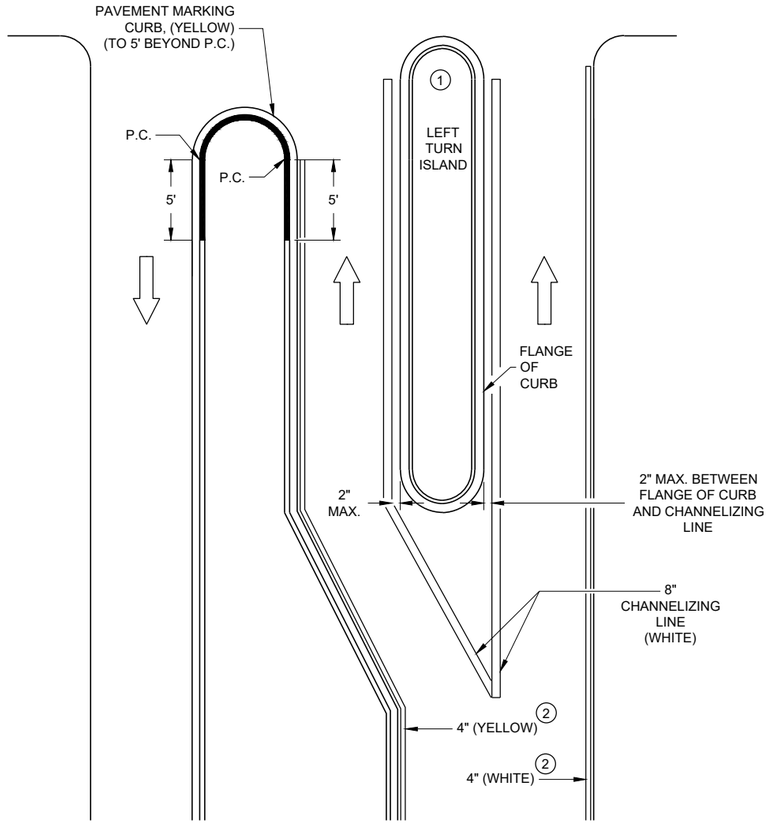
/S/ Matthew R. Rauch
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SDD15C18 - 05b

REQUIREMENTS FOR EDGE LINES		
POSTED SPEED	IS THERE CONTINUOUS LIGHTING?	
	YES	NO
≤ 30 MPH	NO	OPTIONAL
35 OR 40 MPH	OPTIONAL	RECOMMENDED
≥ 45 MPH	RECOMMENDED	REQUIRED



LEFT TURN & MEDIAN ISLAND

GENERAL NOTES

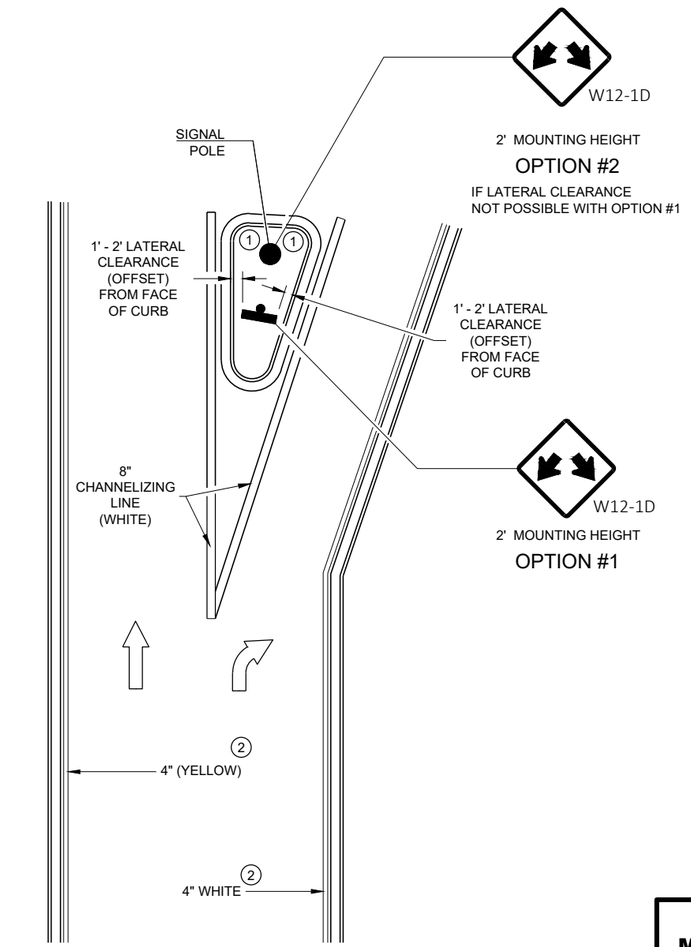
APPLIES TO ISLANDS AT LEFT TURNS AT ONE WAY ROADWAYS AS WELL.

SEE MISCELLANEOUS QUANTITIES FOR SIGN SIZE.

(1) MARK CURB NOSES YELLOW.

(2) MARK ACCORDING TO TABLE.

DIRECTION OF TRAVEL



RIGHT TURN ISLAND

MEDIAN PAVEMENT MARKINGS, DOUBLE ARROW WARNING SIGN PLACEMENT

STATE OF WISCONSIN
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February 2021
DATE

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STATE SIGNING AND MARKING ENGINEER

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SDD15C18 - 05c

LEGEND

V1 LEAD VEHICLE

V2 MARKING VEHICLE

V3 SHADOW VEHICLE

TRUCK MOUNTED ATTENUATOR (TMA)

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC

FLASHING ARROW PANEL (CAUTION)

GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL OPERATING IN CAUTION MODE. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE SPECIFIED.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL AND HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

THE WORK AND SHADOW VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS.

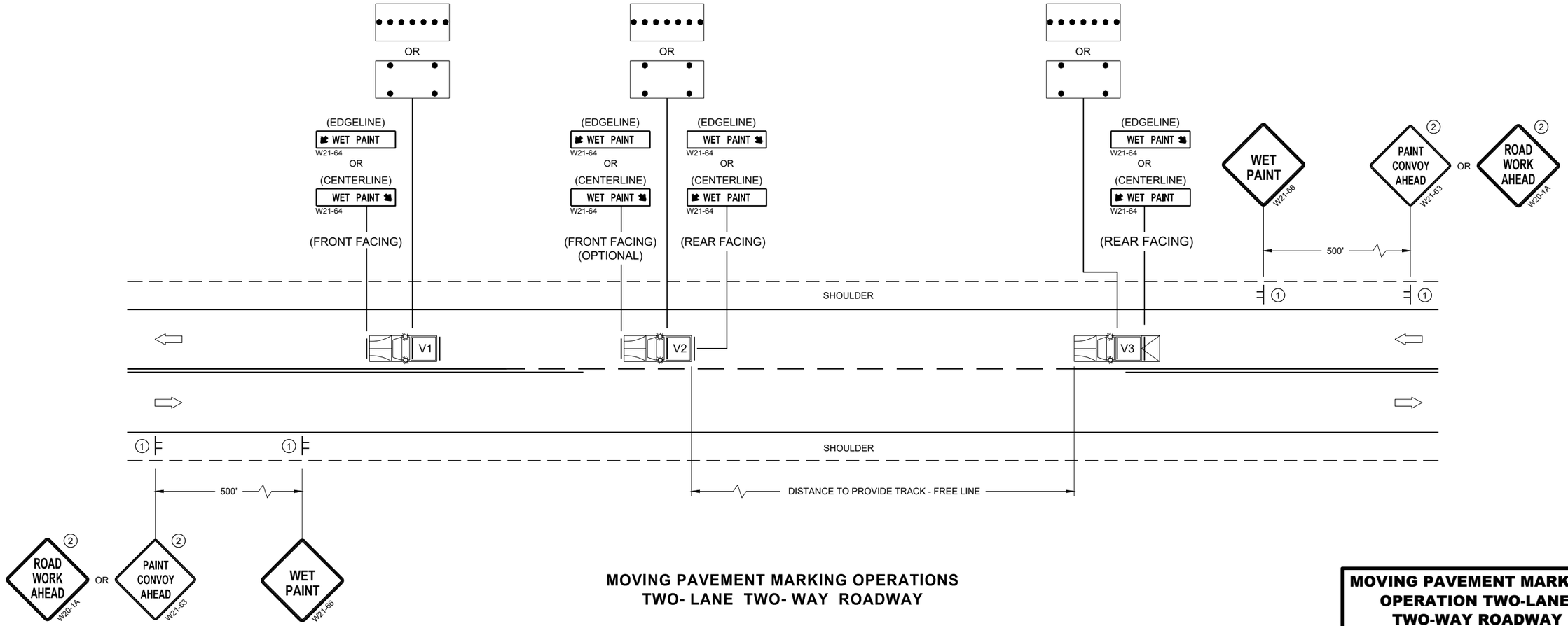
WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH UPRIGHTS ORIENTED PARALLEL TO AND DOWNSTREAM FROM TRAFFIC.

CONES SHOULD BE USED BETWEEN THE MARKING AND SHADOW VEHICLE AT 100 FOOT SPACING. CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

CONES SHALL BE A MINIMUM OF 18" FOR WET PAVEMENT MARKING .

(1) SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES.

(2) IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1A OR W21-63 ARE NOT REQUIRED.



MOVING PAVEMENT MARKING OPERATIONS TWO- LANE TWO- WAY ROADWAY

MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

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SDD 15C19 - 06a

6

SDD 15C19 - 06a

LEGEND

V1 LEAD VEHICLE

V2 MARKING VEHICLE

V3 SHADOW VEHICLE

TRUCK MOUNTED ATTENUATOR (TMA)

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC

FLASHING ARROW PANEL (MERGE)

FLASHING ARROW PANEL (CAUTION)

GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE SPECIFIED.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL AND HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

WHEN WORK ACTIVITY BLOCKS THE LEFT LANE, REVERSE TRAFFIC CONTROL.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, PROVIDE ADDITIONAL TRAFFIC CONTROLS AS SPECIFIED IN THE CONTRACT OR AS APPROVED BY THE ENGINEER.

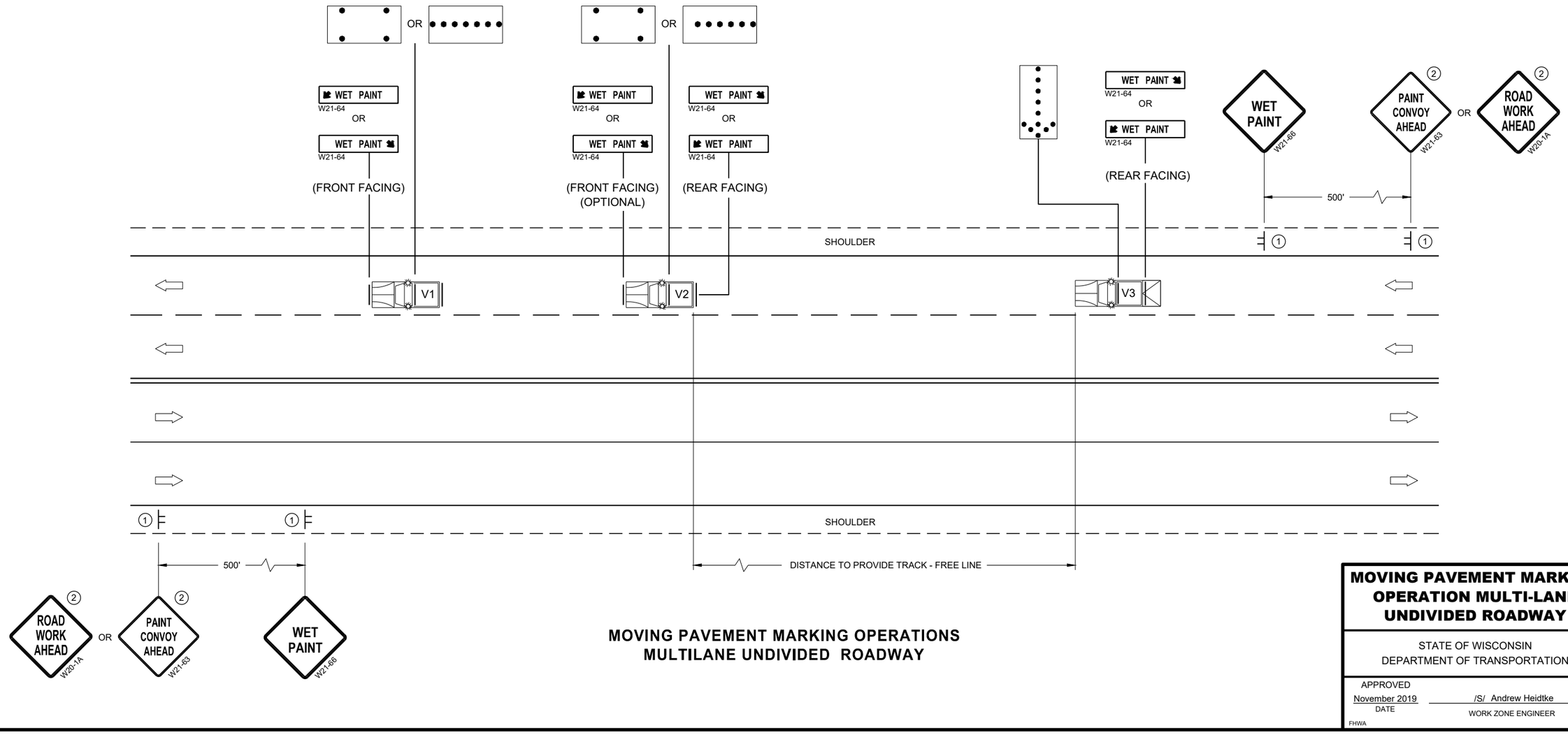
WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH UPRIGHTS ORIENTED PARALLEL TO AND DOWNSTREAM FROM TRAFFIC.

CONES SHOULD BE USED BETWEEN THE MARKING AND SHADOW VEHICLES AT 100 FOOT SPACING. CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

CONES SHALL HAVE A MINIMUM HEIGHT OF 18" FOR WET PAVEMENT MARKINGS.

(1) SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES.

(2) IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1A OR W21-63 ARE NOT REQUIRED.



MOVING PAVEMENT MARKING OPERATIONS MULTILANE UNDIVIDED ROADWAY

MOVING PAVEMENT MARKING OPERATION MULTI-LANE UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER
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SDD 15C19 - 06b

6

SDD 15C19 - 06b

LEGEND

V1 MARKING VEHICLE

V2 SHADOW VEHICLE

V3 TRAIL VEHICLE

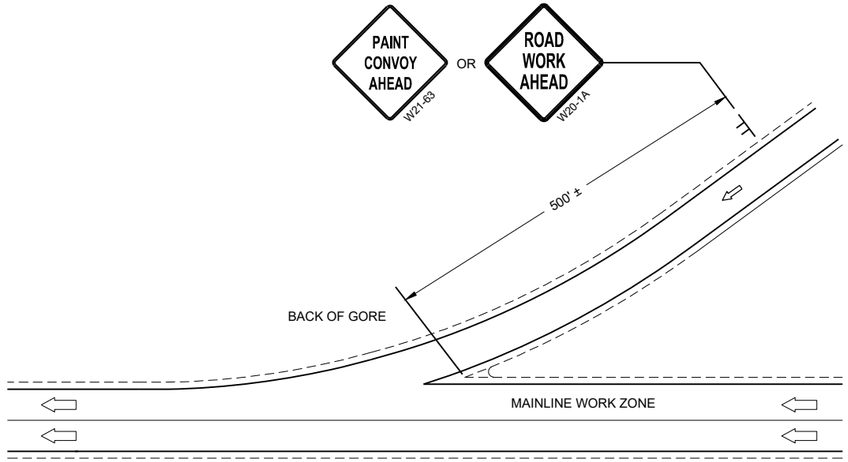
TRUCK MOUNTED ATTENUATOR (TMA)

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC

FLASHING ARROW PANEL (MERGE)

FLASHING ARROW PANEL (CAUTION)



GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE SPECIFIED.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL AND HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

WHEN WORK ACTIVITY BLOCKS THE LEFT LANE, REVERSE TRAFFIC CONTROL.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, PROVIDE ADDITIONAL TRAFFIC CONTROLS AS SPECIFIED IN THE CONTRACT OR AS APPROVED BY THE ENGINEER.

USE AN ATTENUATOR ON THE REARMOST VEHICLE THAT BLOCKS ALL OR PART OF THE TRAFFIC LANE.

IF THE SHOULDER IS TOO NARROW TO ACCOMMODATE THE LAST TRAILING VEHICLE, THE VEHICLE SHOULD STRADDLE THE EDGE LINE.

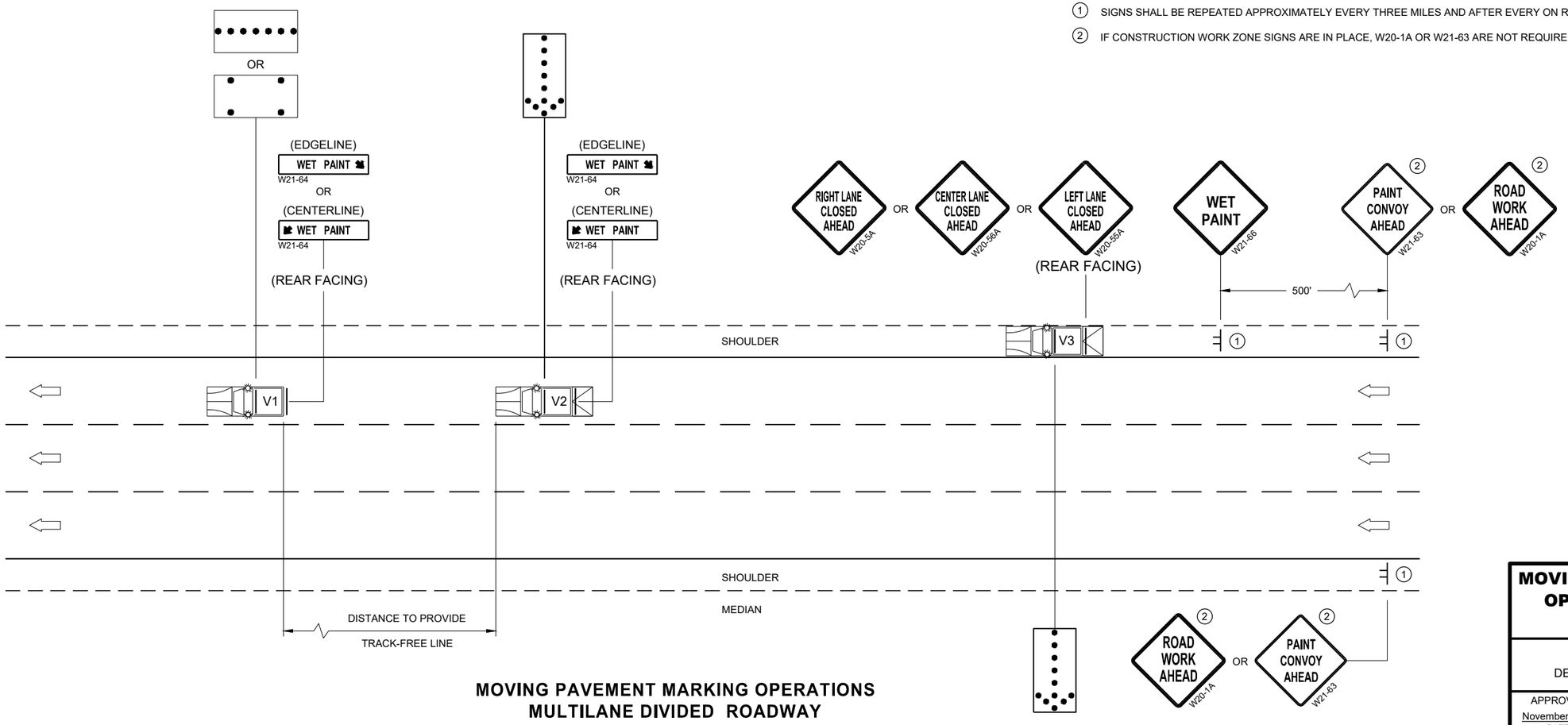
WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH UPRIGHTS ORIENTED PARALLEL TO AND DOWNSTREAM FROM TRAFFIC

CONES SHOULD BE USED BETWEEN THE MARKING AND SHADOW VEHICLE AT 100 FOOT SPACING. CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

CONES SHALL BE A MINIMUM HEIGHT OF 18" FOR WET PAVEMENT MARKINGS

(1) SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES AND AFTER EVERY ON RAMP.

(2) IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1A OR W21-63 ARE NOT REQUIRED.



MOVING PAVEMENT MARKING OPERATIONS
MULTILANE DIVIDED ROADWAY

MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

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SDD 15C19 - 06c

6

SDD 15C19 - 06c

GENERAL NOTES

SIGNING AND MARKING IS SHOWN AS TYPICAL PLACEMENT. FIELD CONDITIONS MAY DICTATE CHANGES IN SIGNING AND MARKING PLACEMENT.

(1) USED ONLY WHEN APPROVED BY REGION TRAFFIC ENGINEER.

* SIGNS MAY BE OMITTED IF SPACE DOES NOT PERMIT PLACEMENT.

** IF POSTED SPEED IS 45 MPH OR GREATER, PLACE W5-54 SIGN UNDER R4-7 SIGN. MOUNT W5-54 SIGN AT 4' MOUNTING HEIGHT (TOP OF ROADWAY TO BOTTOM OF SIGN).

LEGEND

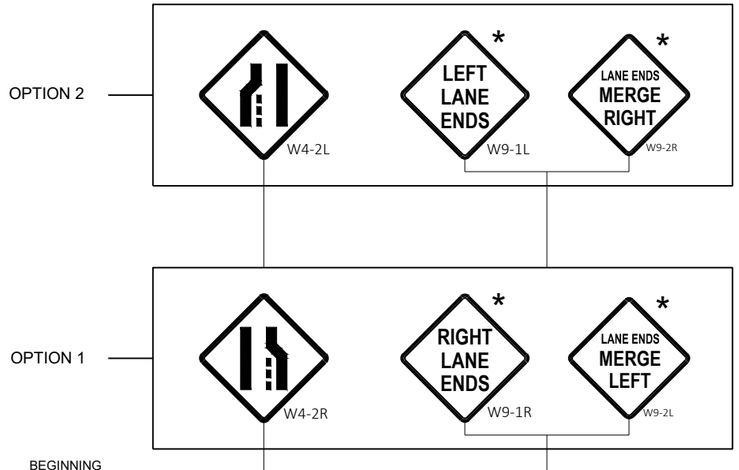
A DISTANCE DEPENDENT ON SPEED (SEE TABLE)

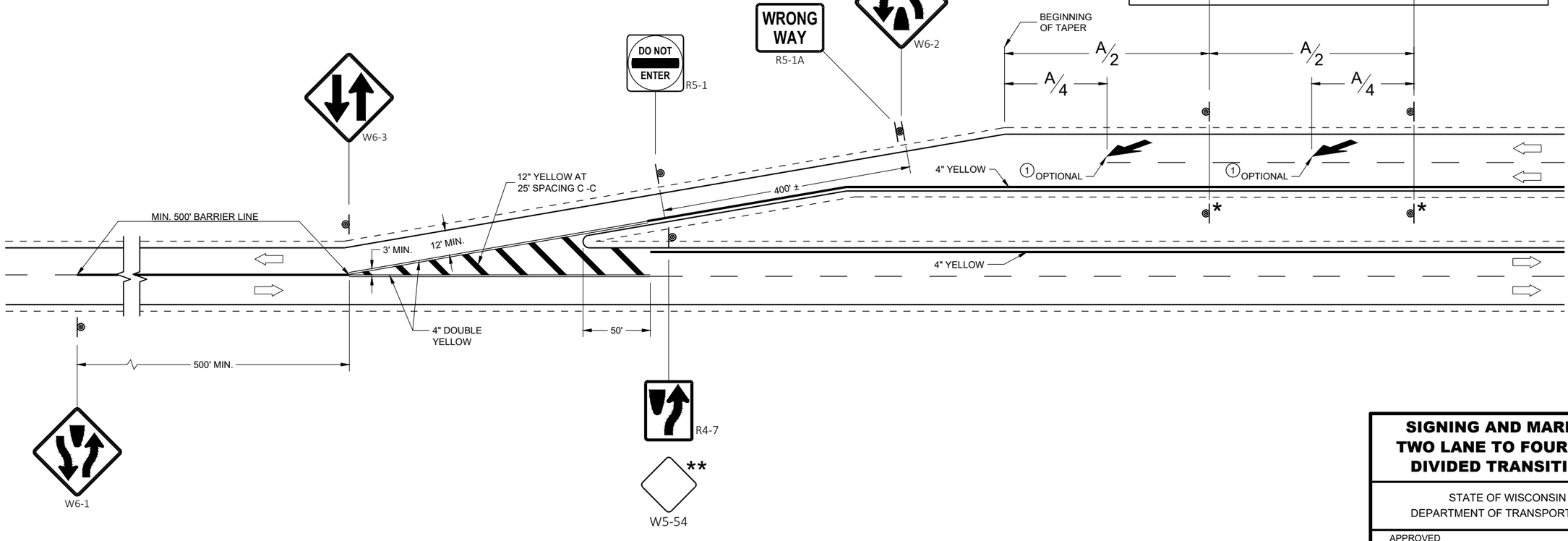
SIGN MOUNTED ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

DISTANCE TABLE

POSTED OR 85TH PERCENTILE SPEED	DISTANCE "A"
25	325'
30	460'
35	565'
40	670'
45	775'
50	885'
55	990'
65	1200'
70	1250'





SIGNING AND MARKING TWO LANE TO FOUR LANE DIVIDED TRANSITIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

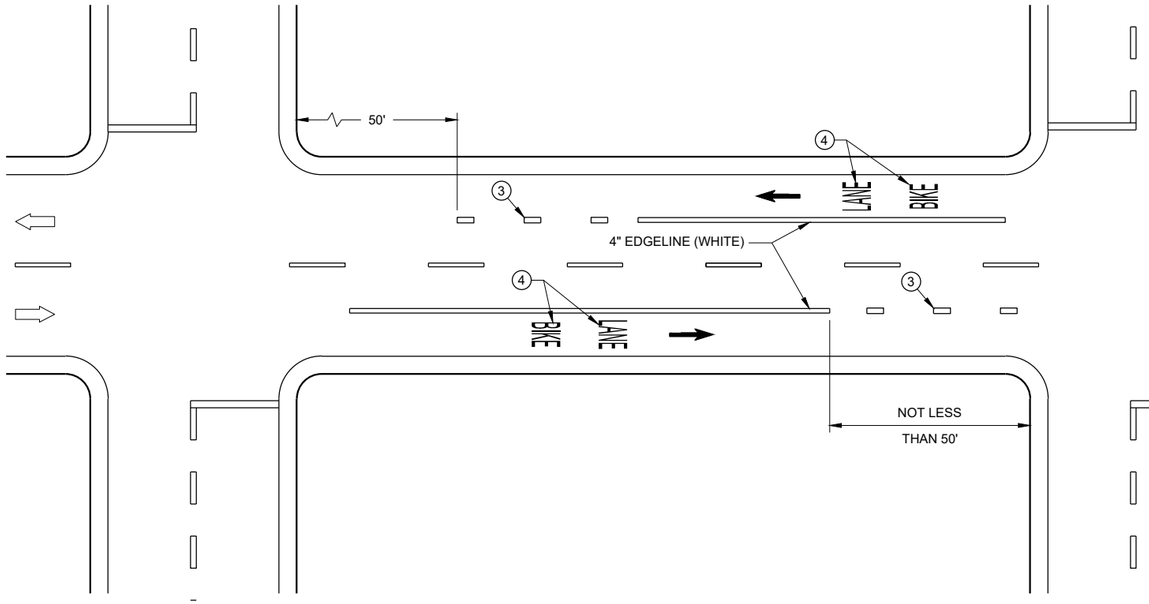
APPROVED
May 2020 — DATE
/S/ Matthew Rauch — STATE SIGNING AND MARKING ENGINEER
FHWA

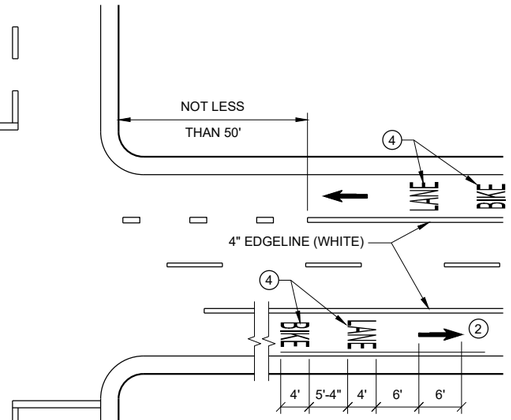
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SDD 15C21 - 10

6

SDD 15C21 - 10



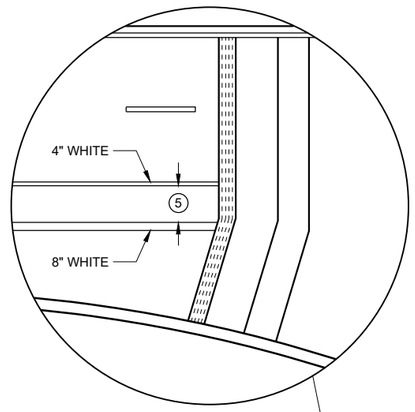


GENERAL NOTES

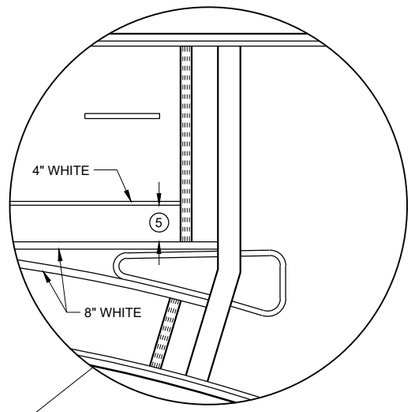
1. DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
2. MINIMUM OF ONE PER BLOCK. MAXIMUM OF 250 FEET.
3. DOTTED LINES (3' LINE, 9' GAP) SHOULD BE USED 50 FEET TO 200 FEET IN ADVANCE OF AN INTERSECTION WHERE THERE IS NO RIGHT TURN ONLY LANE AND THERE IS HEAVY RIGHT TURN TRAFFIC OR THERE IS A NEAR-SIDE BUS STOP. AT OTHER INTERSECTIONS WHERE RIGHT TURN TRAFFIC IS LIGHT TO MODERATE, A SOLID LINE CAN BE USED UP TO THE INTERSECTION.
4. BIKE SYMBOLS OR WORDS MAY BE USED.
5. BIKE ACCOMMODATION IS TYPICAL 5 FEET WIDE AND MINIMUM OF 4 FEET FROM A LONGITUDINAL JOINT. USE 5 FEET AT ≥ 45 MPH.
6. OMIT THESE MARKINGS FOR WIDER TURN LANE APPLICATIONS (MINIMUM OF 15 FOOT WIDE TURN LANE).
7. REFER TO CONTRACT PLANS FOR LANE WIDTH.

DIRECTION OF TRAVEL

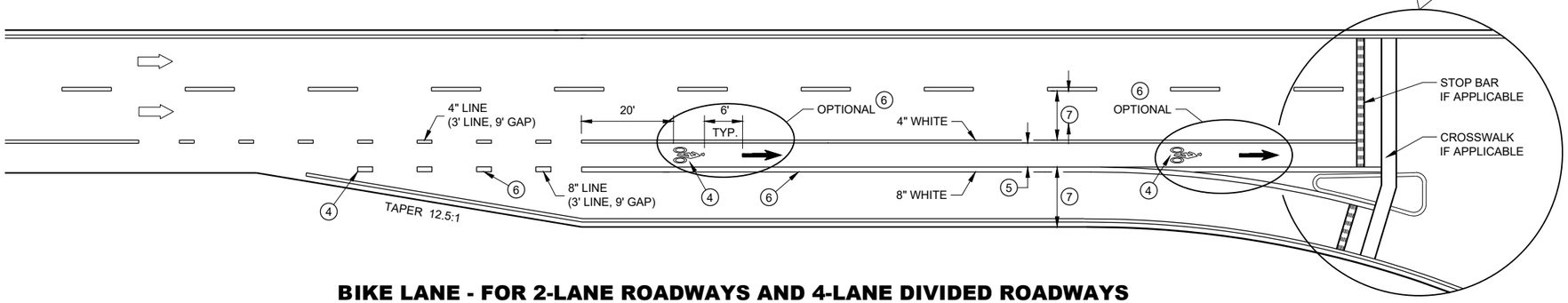
DESIGNATED BIKE LANE - NO PARKING



4 LANE DIVIDED WITHOUT ISLAND



4 LANE DIVIDED WITH ISLAND



BIKE LANE - FOR 2-LANE ROADWAYS AND 4-LANE DIVIDED ROADWAYS
(4-LANE DIVIDED WITH RIGHT TURN LANE SHOWN)

BIKE LANE MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

May 2020
DATE

/S/ Matthew Rauch
STATE SIGNING AND MARKING ENGINEER

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SDD 15C29 - 07a

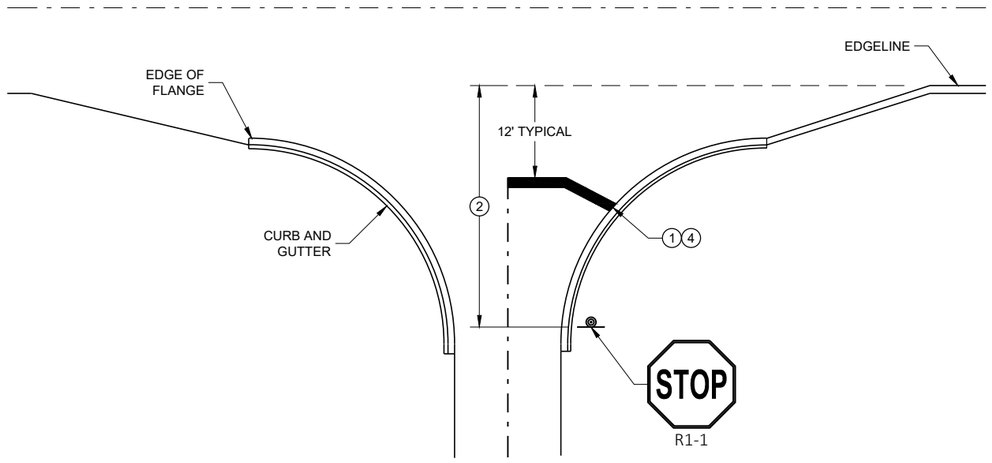
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SDD 15C29 - 07a

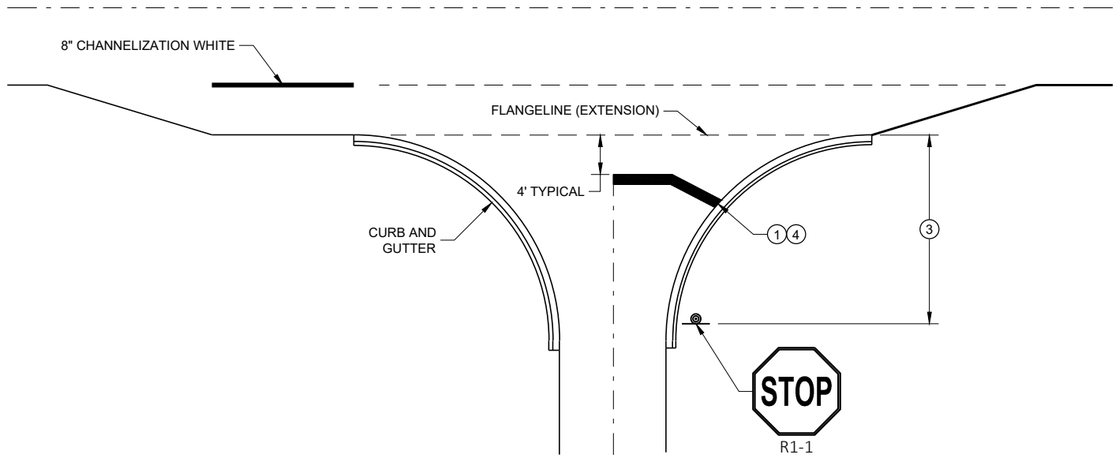
GENERAL NOTES

STOP SIGN SHALL BE PLACED A MINIMUM OF 6 FEET TO A MAXIMUM OF 50 FEET FROM THE EDGELINE LOCATION.

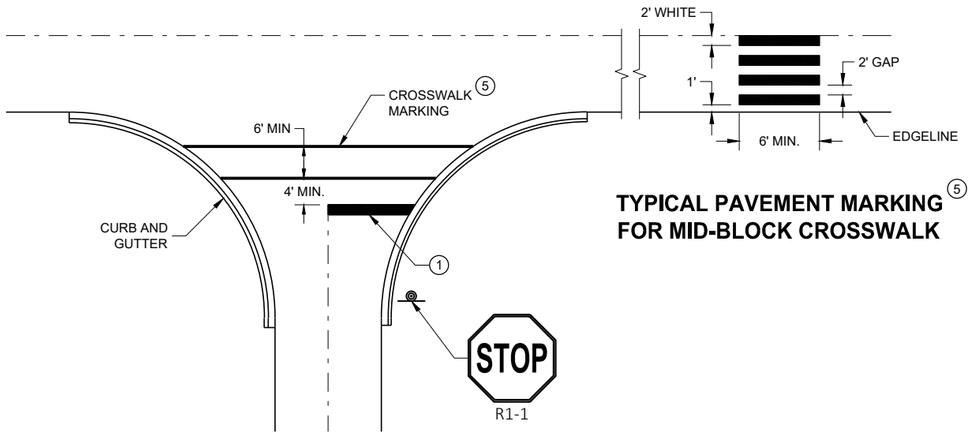
1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE REGION MARKING ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE.
3. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION.
4. MOVE CLOSER TO THE EDGE OF TRAVEL LINE AS NEEDED FOR VISIBILITY AND SIGHT LINES (NO CLOSER THAN 4 FEET).
5. LADDER BAR CROSSWALKS SHOULD ONLY BE USED FOR MID BLOCK CROSSINGS. USE 2 - 6" TRANSVERSE LINES INSTEAD.



TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER

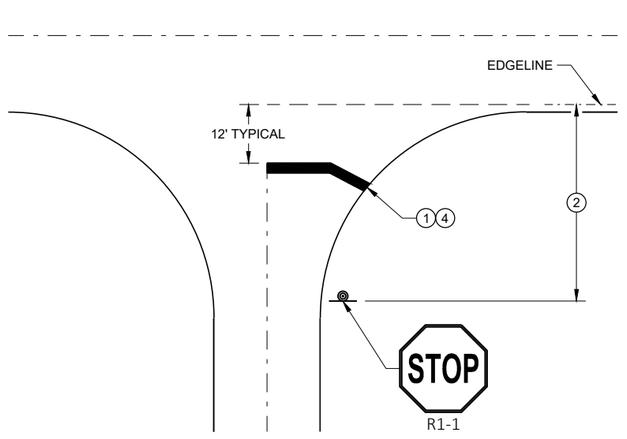


TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING

TYPICAL PAVEMENT MARKING 5 FOR MID-BLOCK CROSSWALK



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

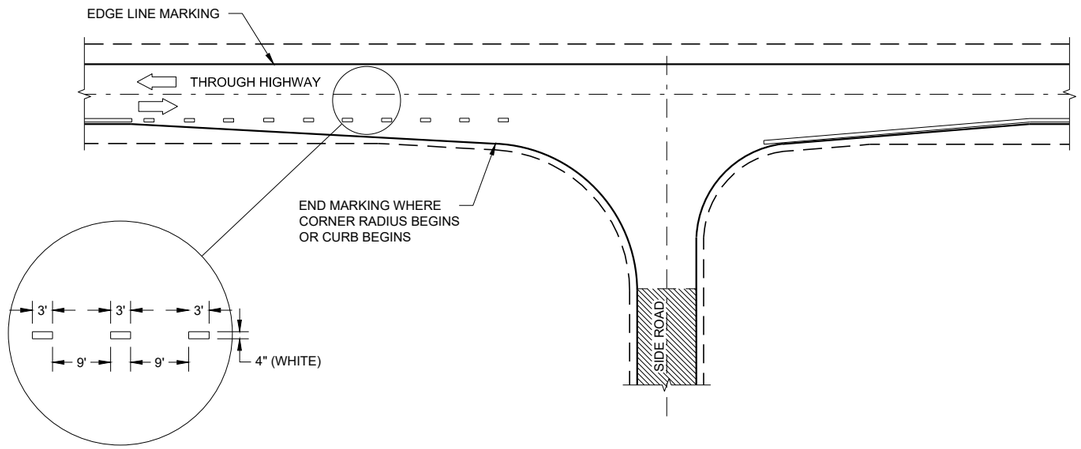
STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

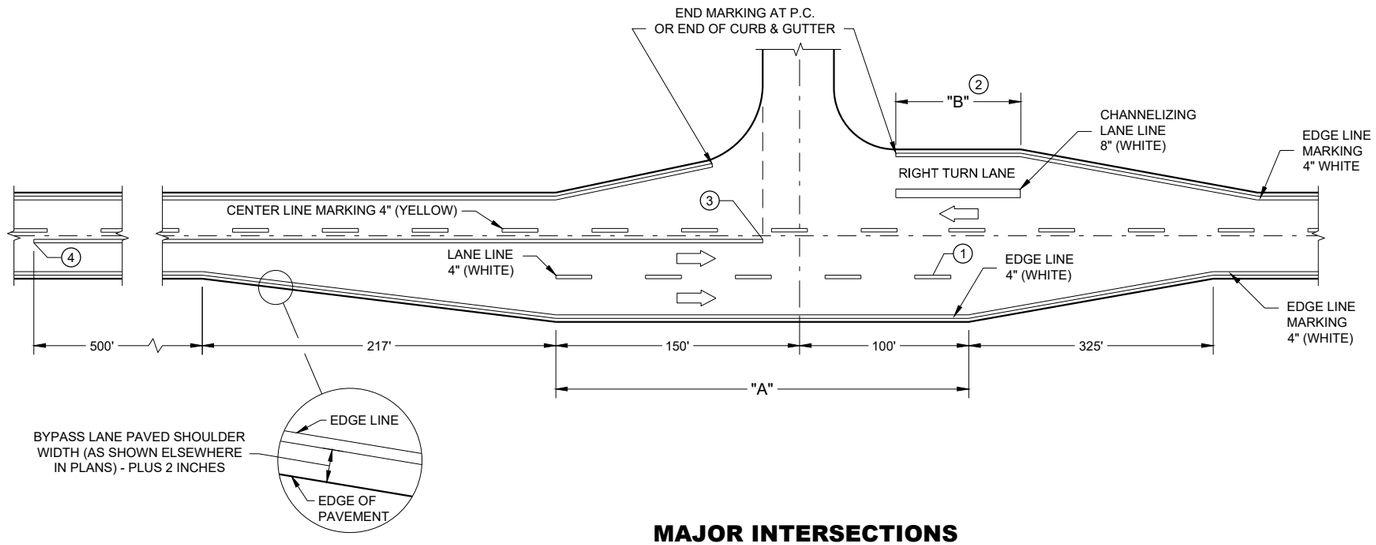
APPROVED
November 2019 — DATE
/S/ Matthew Rauch — STATE SIGNING AND MARKING ENGINEER
FHWA

6

SDD 15C33 - 04



MINOR INTERSECTION



MAJOR INTERSECTIONS

(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANE)

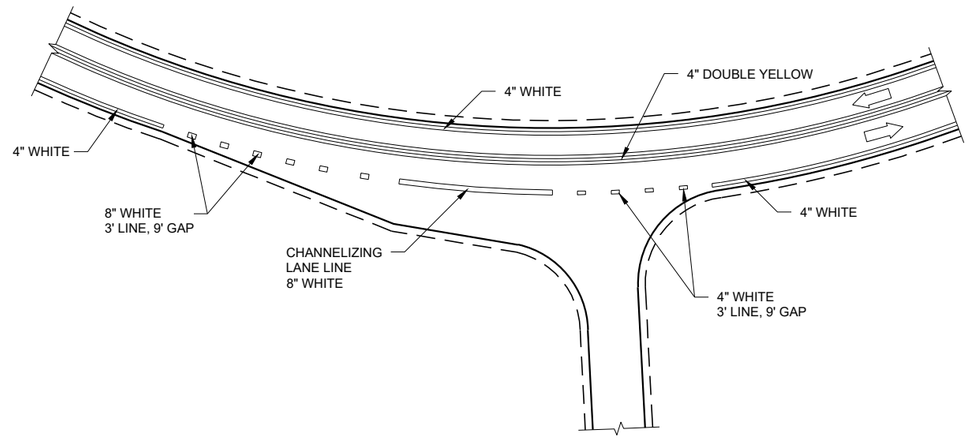
GENERAL NOTES

OMIT EDGE LINES THROUGH INTERSECTIONS. CONTINUE EDGE LINES THROUGH DRIVEWAYS.

1. WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.
2. WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.
3. BARRIER LINE ENDS AT SIDE ROAD PAVEMENT / SURFACE EDGE EXTENSION.
4. BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.

LEGEND

DIRECTION OF TRAVEL



INTERSECTION ON OUTSIDE OF CURVE

PAVEMENT MARKING (INTERSECTIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 15C35 - 04a

6

LEGEND

SIGN ON PERMANENT SUPPORT

DELINEATOR, FLEXIBLE/TUBULAR MARKER

DIRECTION OF TRAFFIC

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS.

A SINGLE ROW OF FLEXIBLE TUBULAR MARKERS ON CENTERLINE EXTEND FOR THE ENTIRE LENGTH OF TWO-WAY TRAFFIC AT 50 FOOT SPACING.

COVER EXISTING CENTERLINE STRIPE WITH TEMPORARY PAVEMENT MARKING, 4 INCH DOUBLE YELLOW.



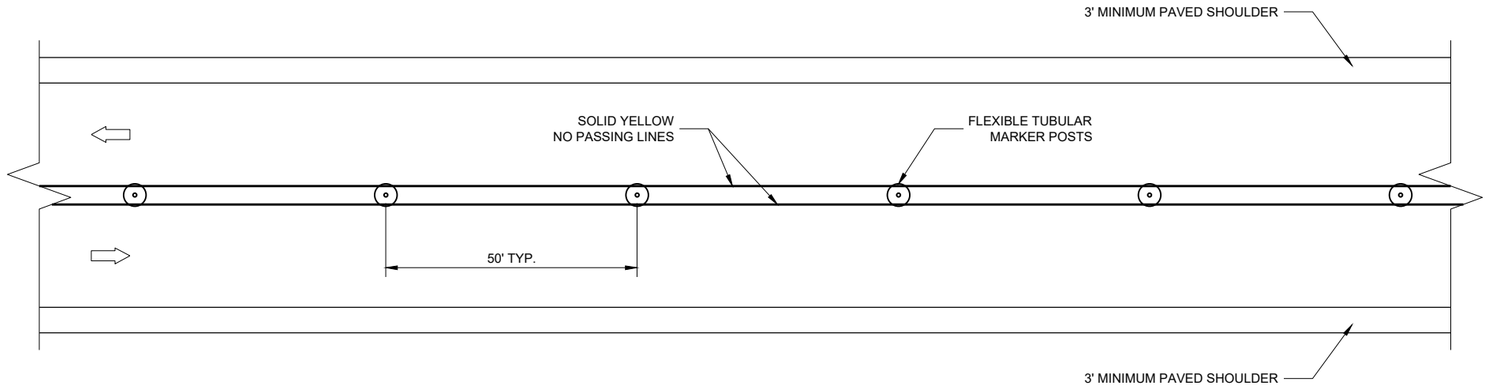
(1)



(2)

(1) THE WO6-3 AND WO57-51 SHALL BE LOCATED 200 FEET BEYOND THE END OF THE ACCELERATION LANE OF EACH ENTRANCE RAMP AND / OR 500 FEET BEYOND ANY SIDE ROAD. THE R4-1 SHALL BE LOCATED 1000 FEET BEYOND THE WO6-3 AND THE WO57-51 AND THE SIGNS SHALL BE ALTERNATED WITH ONE MILE INTERVALS BETWEEN THE SIGNS.

(2) CONVENTIONAL: 24" X 30"
FREEWAY AND EXPRESSWAY: 36" X 48"



TWO LANE, TWO WAY OPERATION

TRAFFIC CONTROL
TWO LANE TWO WAY
OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE

/S/ Andrew Heidtke
STATE TRAFFIC ENGINEER OF DESIGN

FHWA

6

SDD 15D06 - 04

6

SDD 15D06 - 04

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC

GENERAL NOTES

THIS RAMP CLOSURE DETAIL IS TYPICAL FOR CLOSING A RIGHT SIDE EXIT RAMP. FOR A LEFT SIDE EXIT RAMP, REVERSE THE TRAFFIC CONTROL.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS, TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

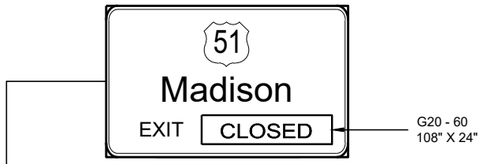
PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF RAMP CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

WORK AREAS WITH A DROP OFF ALONG THE EDGE OF AN OPEN TRAVEL LANE SHALL BE LEVELED WITH TEMPORARY FILL WHEN THE CONTRACTOR IS NOT WORKING ADJACENT TO THE TRAVEL LANE. DRUMS SHALL BE PLACED ENTIRELY OUTSIDE THE TRAVEL LANE, ALLOWING THE FULL UNOBSTRUCTED LANE WIDTH, WHEN WORK IS NOT IN PROGRESS.

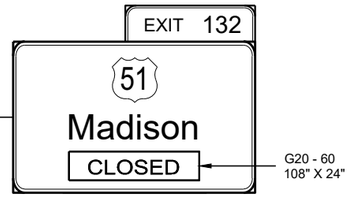
WHERE MEDIAN BARRIER IS IN PLACE, SIGNS SHOWN ON LEFT SIDE OF ROADWAY MAY BE OMITTED FOR RIGHT SIDE RAMP CLOSURES OF LESS THAN 12 - HOUR DURATION.

* W20 - 1A AND G20 - 2A SIGNS ARE NOT REQUIRED IF THE RAMP CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

** PLACE "RAMP CLOSED BEGINNING" SIGN OR PCMS 7 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY THE ENGINEER. SEE WISCONSIN STANDARD SIGN PLATES FOR SIGN LAYOUT.



OR

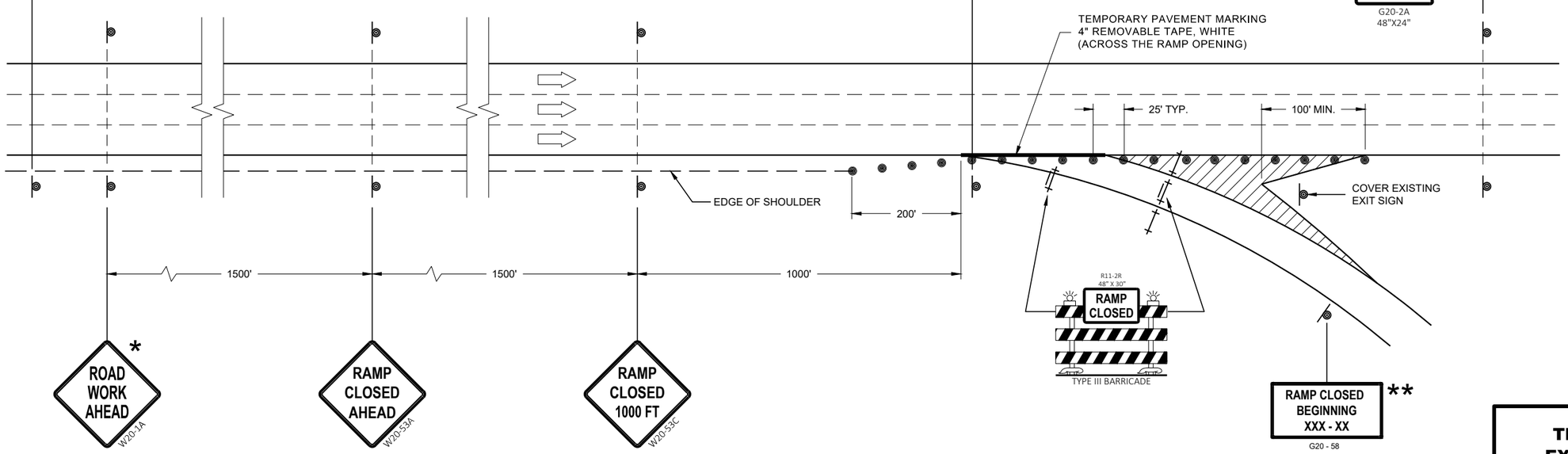


PLACE SIGN G20 - 60 OVER MILEAGE ON EXISTING E1 - 1A SIGN



COVER ARROW ON EXISTING E4 - 1 SIGN (COVERING SIGNS TYPE I)

G20 - 61
120 ' X 30"



OR

PCMS MESSAGING

FRAME 1	FRAME 2
RAMP TO CLOSE	XXXDAY XX XX XX

TRAFFIC CONTROL, EXIT RAMP CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Andrew Heidtke
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

6

SDD 15D16 - 04

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- REMOVE PAVEMENT MARKING (SEE GENERAL NOTES)
- WORK AREA

GENERAL NOTES

FOR WORK ON ROADWAYS WITH SPEEDS GREATER THAN 45MPH, USE SDD 15D12.

THIS LANE CLOSURE DETAIL IS TYPICAL FOR CLOSING THE LEFT LANE. FOR A RIGHT LANE CLOSURE, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR ROADWAYS WITH EITHER TWO OR THREE LANES IN EACH DIRECTION.

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36"X 36" SIGNS MAY BE USED IF APPROVED BY REGIONAL TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON TEMPORARY SUPPORTS.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE

W20-1A, G20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROW BOARDS AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

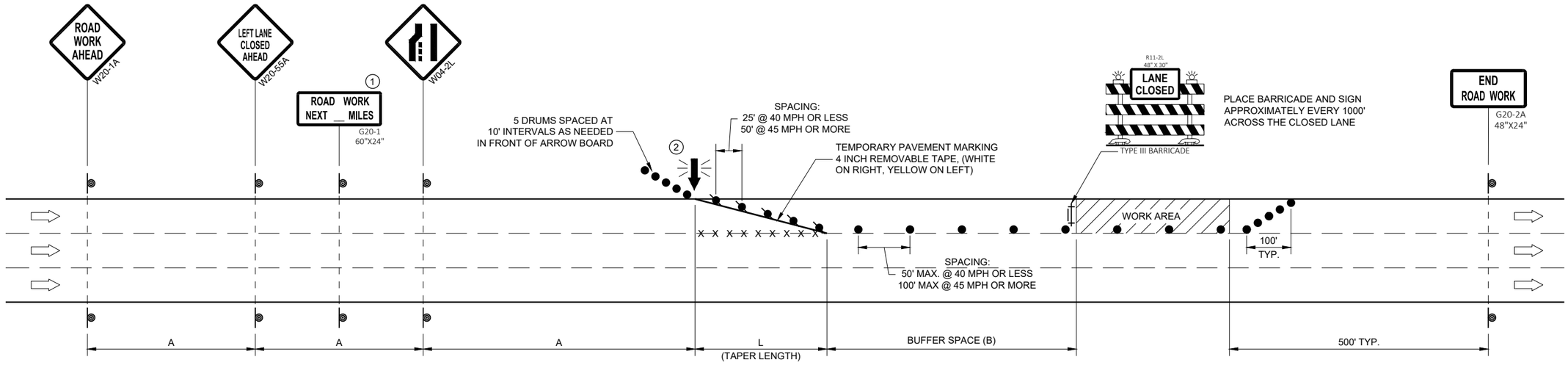
BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

(1) OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

(2) WHERE THE SHOULDER OR TERRACE HAS INSUFFICIENT SPACE TO PLACE THE ARROW BOARD AS SHOWN, PLACE THE ARROW BOARD AT THE END OF THE TAPER.



POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	TAPER LENGTH (12 FT. LANE) (L) FEET	BUFFER SPACE (B) FEET
25	200'	125'	55'
30	200'	180'	85'
35	350'	245'	120'
40	350'	320'	170'
45	500'	540'	220'

TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2020
DATE

/S/ Andrew Heidtke
STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER

FHWA

6

SDD15D20 - 05a

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- REMOVE PAVEMENT MARKING (SEE GENERAL NOTES)
- WORK AREA



GENERAL NOTES

THIS DETAIL MAY BE USED FOR ROADWAYS WITH EITHER TWO OR THREE LANES IN EACH DIRECTION.

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36"X 36" SIGNS MAY BE USED IF APPROVED BY REGIONAL TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON TEMPORARY SUPPORTS.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

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REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROW BOARDS AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

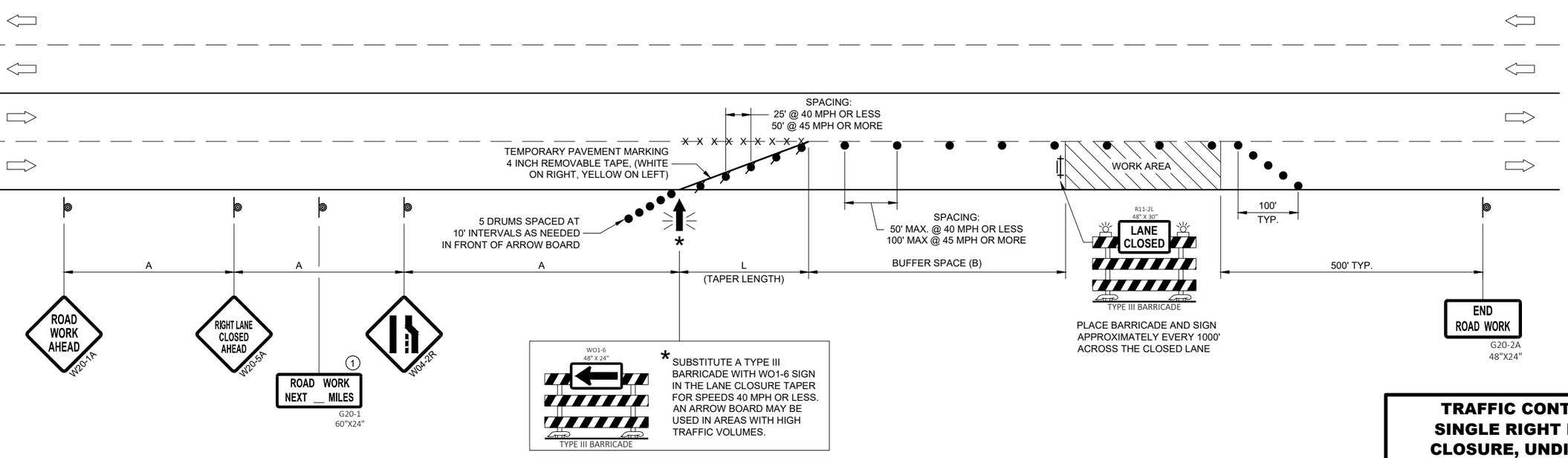
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

(1) OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	TAPER LENGTH (12 FT. LANE) (L) FEET	BUFFER SPACE (B) FEET
25	200'	125'	55'
30	200'	180'	85'
35	350'	245'	120'
40	350'	320'	170'
45	500'	540'	220'
50	500'	600'	280'
55	500'	660'	335'





TRAFFIC CONTROL, SINGLE RIGHT LANE CLOSURE, UNDIVIDED NON-FREEWAY/EXPRESSWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2020 — DATE
/S/ Andrew Heidtke — STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER
FHWA

SDD 15D20 - 05b

SDD 15D20 - 05b

6

6

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- REMOVE PAVEMENT MARKING (SEE GENERAL NOTES)
- WORK AREA

GENERAL NOTES

THIS DETAIL MAY BE USED FOR ROADWAYS WITH EITHER TWO OR THREE LANES IN EACH DIRECTION.

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36"X 36" SIGNS MAY BE USED IF APPROVED BY REGIONAL TRAFFIC UNIT.

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REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROW BOARDS AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

DUE TO LACK OF SHOULDER/MEDIAN, ARROW BOARD IS PLACED AT THE THE END OF THE TAPER.

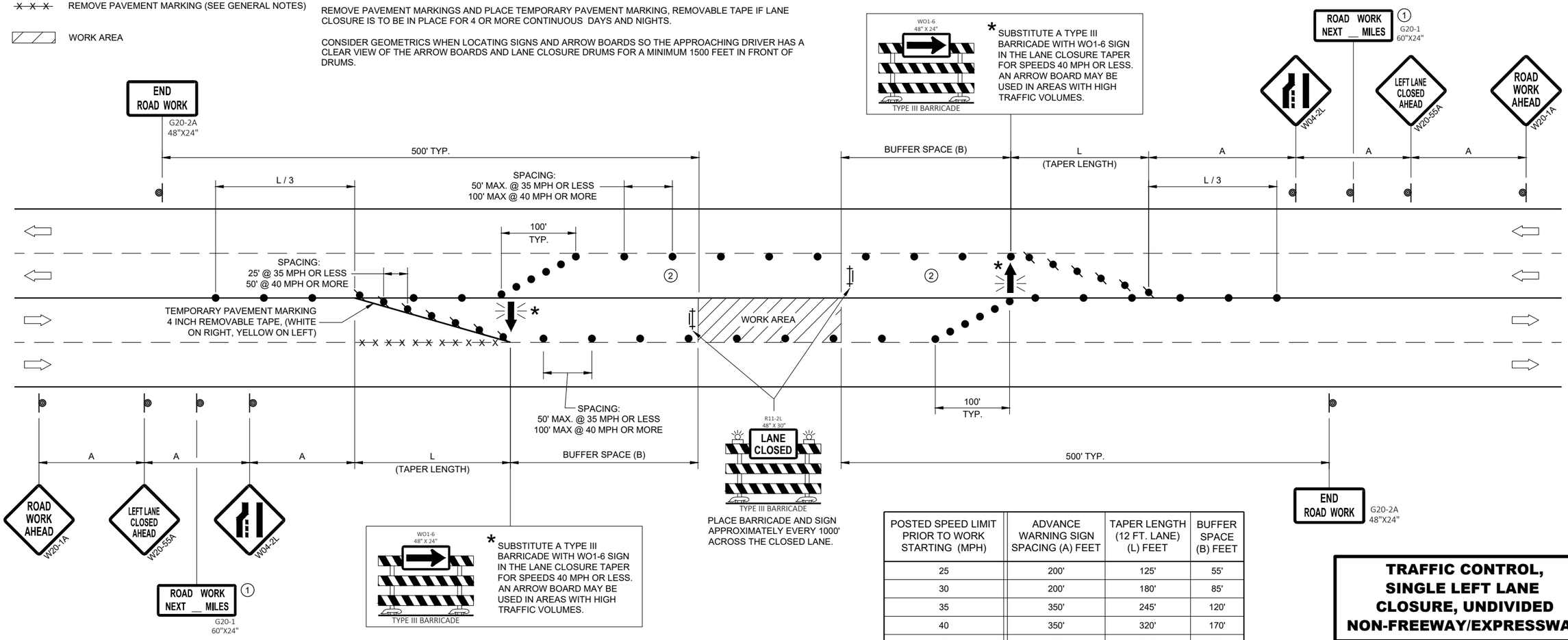
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CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

(1) OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

(2) LANE MAY BE OPENED WHEN WORKERS ARE NOT PRESENT IN THE WORK AREA.



* SUBSTITUTE A TYPE III BARRICADE WITH WO1-6 SIGN IN THE LANE CLOSURE TAPER FOR SPEEDS 40 MPH OR LESS. AN ARROW BOARD MAY BE USED IN AREAS WITH HIGH TRAFFIC VOLUMES.

* SUBSTITUTE A TYPE III BARRICADE WITH WO1-6 SIGN IN THE LANE CLOSURE TAPER FOR SPEEDS 40 MPH OR LESS. AN ARROW BOARD MAY BE USED IN AREAS WITH HIGH TRAFFIC VOLUMES.

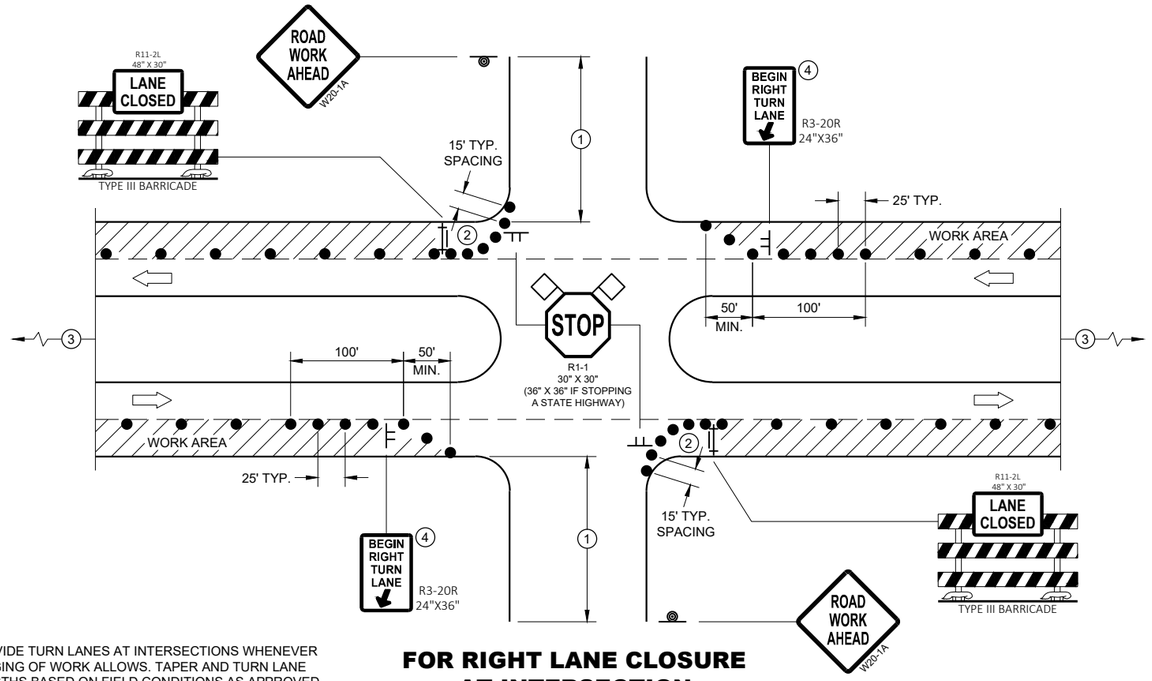
POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	TAPER LENGTH (12 FT. LANE) (L) FEET	BUFFER SPACE (B) FEET
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30	200'	180'	85'
35	350'	245'	120'
40	350'	320'	170'
45	500'	540'	220'
50	500'	600'	280'
55	500'	660'	335'

TRAFFIC CONTROL, SINGLE LEFT LANE CLOSURE, UNDIVIDED NON-FREEWAY/EXPRESSWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

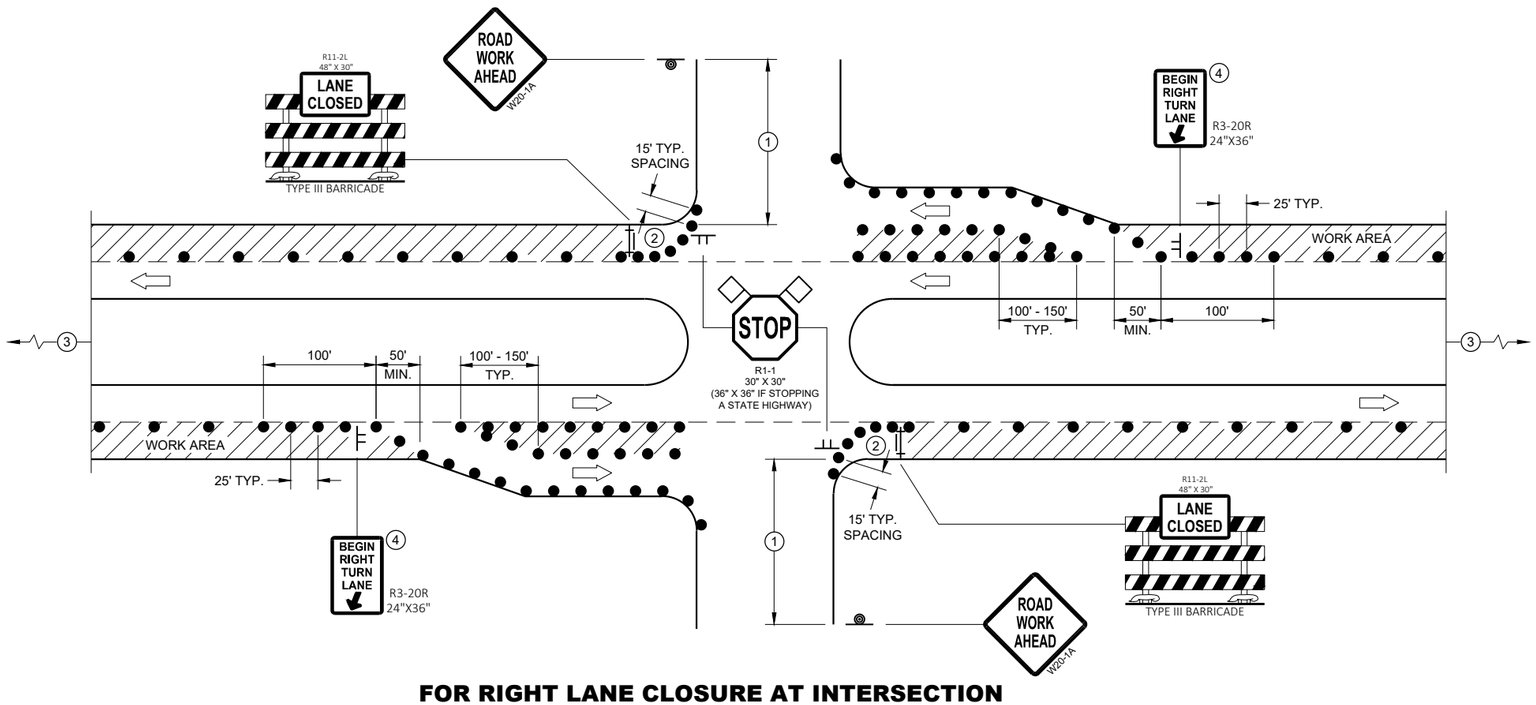
APPROVED
May 2020 — DATE
/S/ Andrew Heidtke — STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER
FHWA

6
SDD 15D20 - 05c



PROVIDE TURN LANES AT INTERSECTIONS WHENEVER STAGING OF WORK ALLOWS. TAPER AND TURN LANE LENGTHS BASED ON FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

FOR RIGHT LANE CLOSURE AT INTERSECTION



FOR RIGHT LANE CLOSURE AT INTERSECTION (WITH RIGHT TURN BAY OPEN)

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" MAY BE USED IF APPROVED BY THE DISTRICT TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

SIGNS THAT WILL REMAIN IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON PORTABLE SUPPORTS.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

(1) 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.
350' IF 35 - 40 MPH.
200' IF 25 - 30 MPH.

(2) ALSO USE BARRICADE AND 15 FOOT TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS

(3) SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.

(4) MINIMUM MOUNTING HEIGHT OF 5 FEET FROM EDGE OF PAVEMENT (AT EDGE LINE LOCATION) TO BOTTOM OF SIGN.

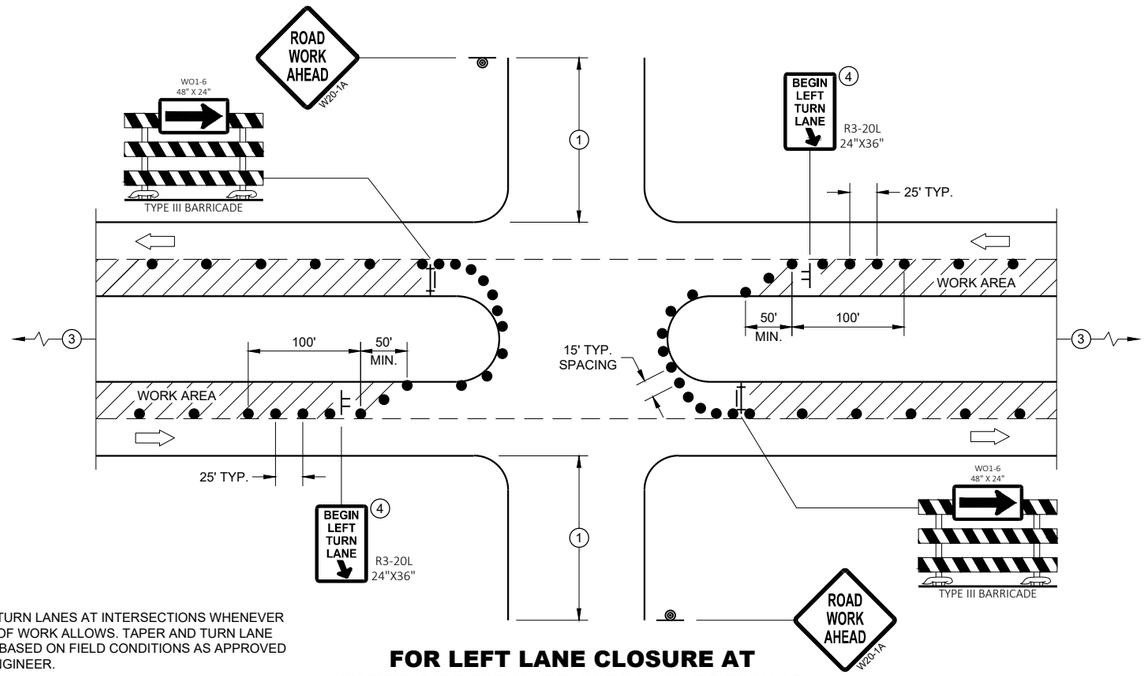
LEGEND

- SIGN ON TEMPORARY SUPPORT
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAFFIC
- FLAGS, 16" X 16" MIN., ORANGE
- WORK AREA

TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE RIGHT LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
SDD15D21 - 07a



PROVIDE TURN LANES AT INTERSECTIONS WHENEVER STAGING OF WORK ALLOWS. TAPER AND TURN LANE LENGTHS BASED ON FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

FOR LEFT LANE CLOSURE AT INTERSECTION OR MEDIAN OPENING

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" MAY BE USED IF APPROVED BY THE DISTRICT TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

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THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

SIGNS THAT WILL REMAIN IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON PORTABLE SUPPORTS.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

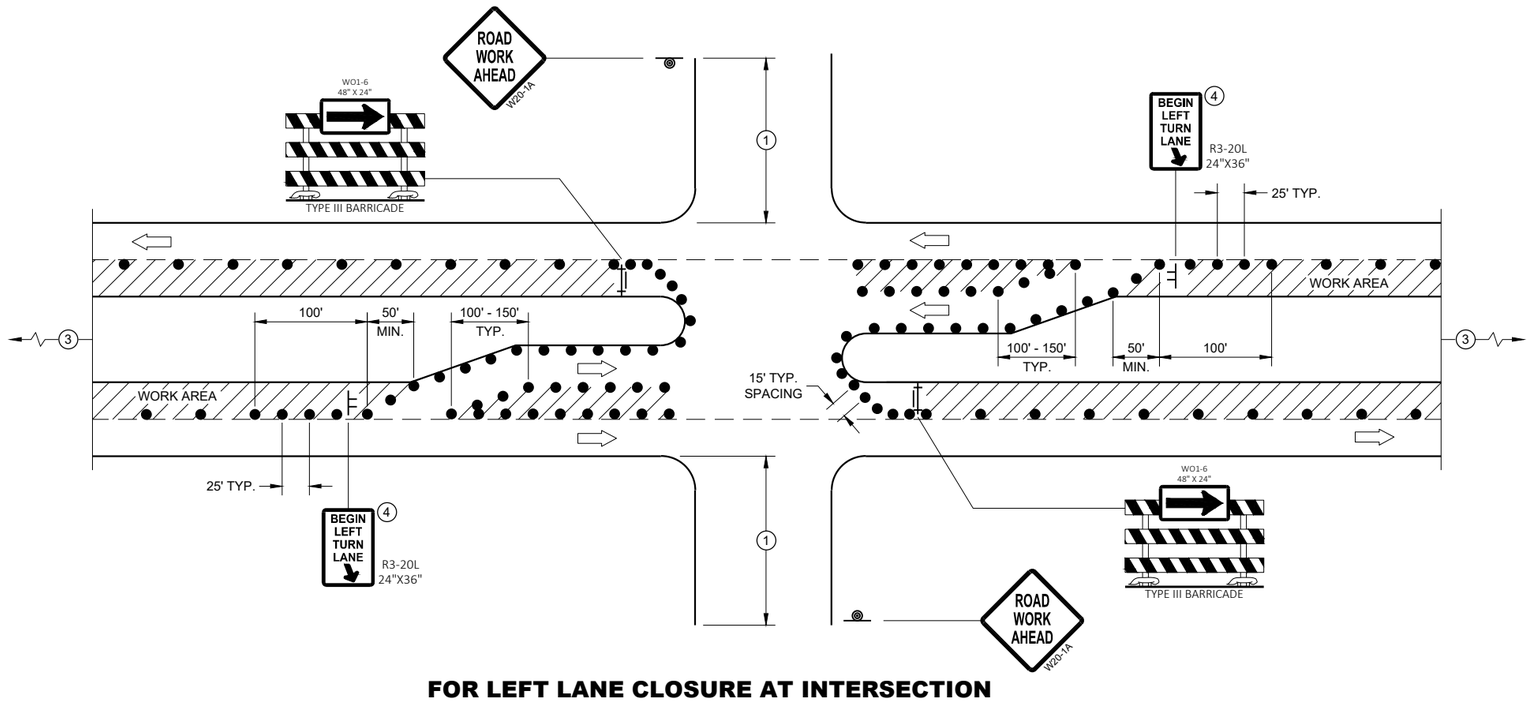
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

(1) 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.
350' IF 35 - 40 MPH.
200' IF 25 - 30 MPH.

(2) ALSO USE BARRICADE AND 15 FOOT TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS

(3) SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.

(4) MINIMUM MOUNTING HEIGHT OF 5 FEET FROM EDGE OF PAVEMENT (AT EDGE LINE LOCATION) TO BOTTOM OF SIGN.



FOR LEFT LANE CLOSURE AT INTERSECTION OR MEDIAN OPENING (WITH LEFT TURN BAY OPEN)

LEGEND

- SIGN ON TEMPORARY SUPPORT
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAFFIC
- FLAGS, 16" X 16" MIN., ORANGE
- WORK AREA

TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LEFT LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

LEGEND

- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- REMOVE PAVEMENT MARKING (SEE GENERAL NOTES)
- WORK AREA

GENERAL NOTES

FOR WORK ON ROADWAYS WITH SPEEDS GREATER THAN 45 MPH, USE SDD 15D14.

THIS LANE CLOSURE DETAIL IS TYPICAL FOR CLOSING THE RIGHT TWO LANES.
FOR CLOSING LEFT TWO LANES, REVERSE THE TRAFFIC CONTROL.

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36"X 36" SIGNS MAY BE USED IF APPROVED BY REGIONAL TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON TEMPORARY SUPPORTS.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

W20-1A, G20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROW BOARDS AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

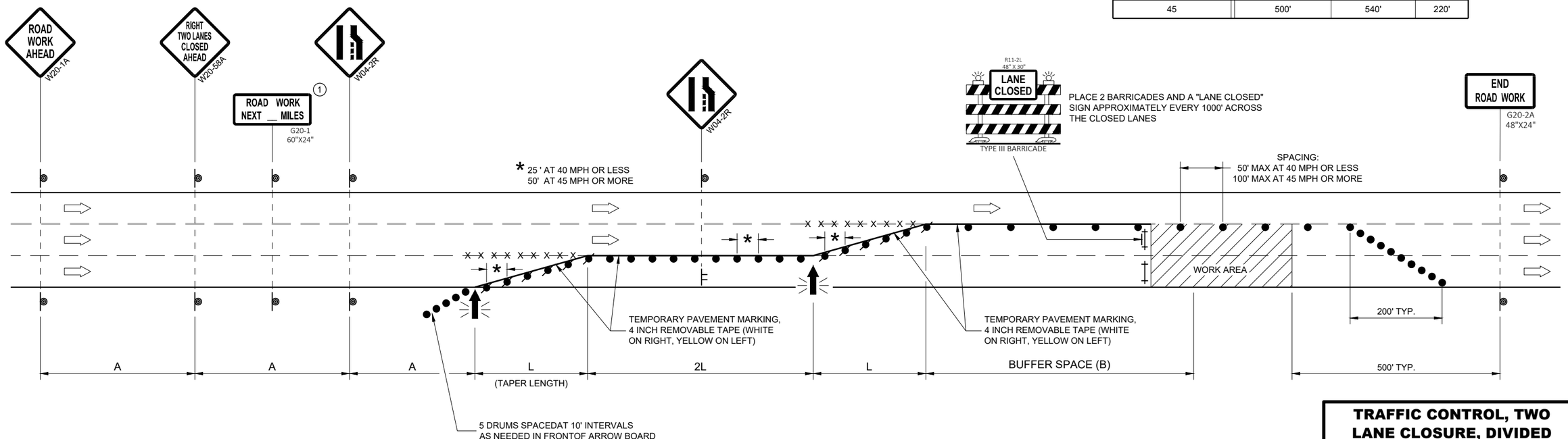
BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

(1) OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	TAPER LENGTH (12 FT. LANE) (L) FEET	BUFFER SPACE (B) FEET
25	200'	125'	55'
30	200'	180'	85'
35	350'	245'	120'
40	350'	320'	170'
45	500'	540'	220'



TRAFFIC CONTROL, TWO LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2020
DATE

/S/ Andrew Heidtke
STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER

FHWA

6
SDD 15D22 - 04

LEGEND

- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- FLASHING ARROW BOARD
- WORK AREA

GENERAL NOTES

THIS DETAIL IS TYPICAL FOR CLOSING THE RIGHT SHOULDER. FOR CLOSING THE LEFT SHOULDER, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR DIVIDED ROADWAYS WITH ANY NUMBER OF TRAVEL LANES.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

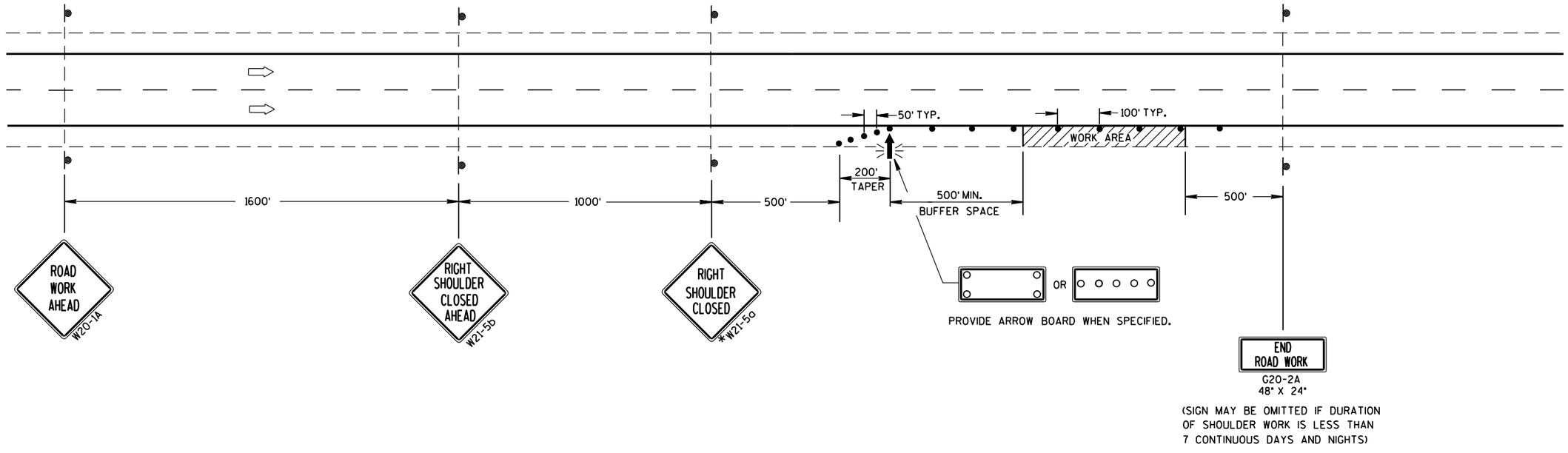
SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

CHANNELIZING DEVICES PLACED ADJACENT TO THE WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

*FOR SHORT DURATION SHOULDER WORK OF LESS THAN ONE HOUR, THE W21-5a SIGN MAY BE OMITTED.



TRAFFIC CONTROL SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2016
DATE

/S/ Peter Amakobe Atepe
STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER

FHWA

6

S.D.D. 15 D 27-3

LEGEND

SIGN ON PERMANENT SUPPORT

TRAFFIC CONTROL DRUM

DIRECTION OF TRAFFIC

WORK ZONE

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY THE REGIONAL TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

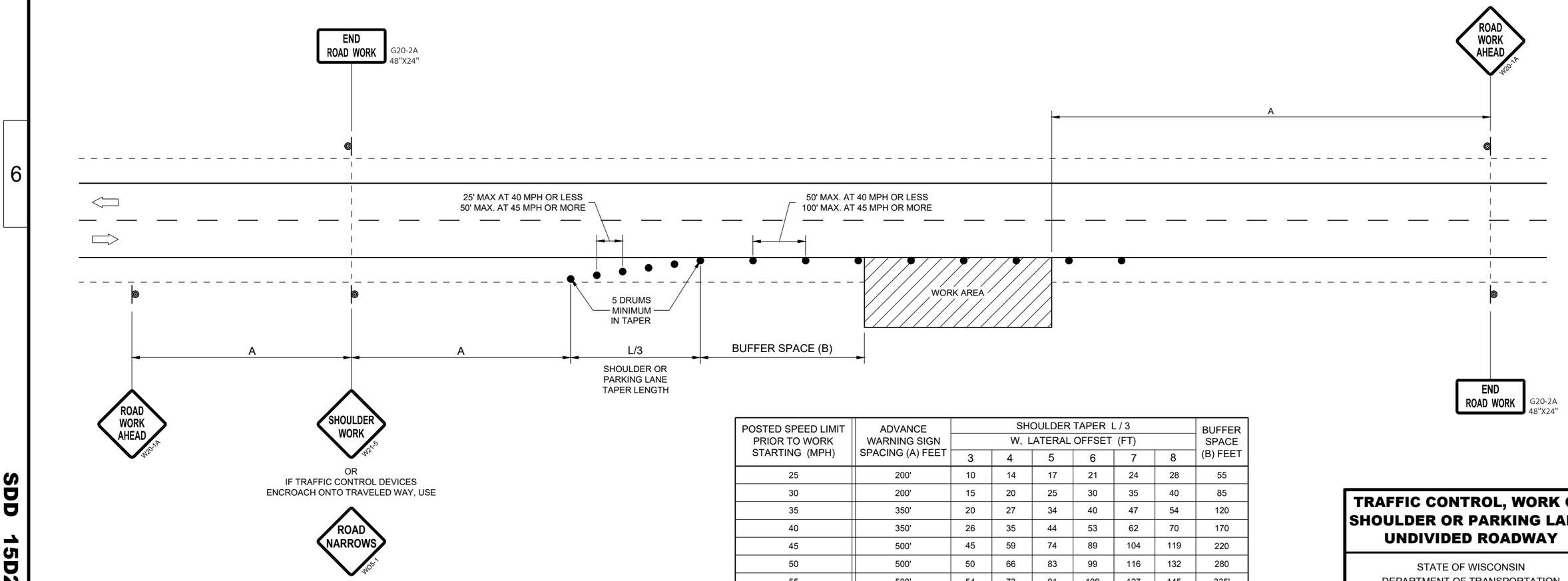
ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

W20-1A AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION OF WORK IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS.



POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	SHOULDER TAPER L / 3 W, LATERAL OFFSET (FT)						BUFFER SPACE (B) FEET
		3	4	5	6	7	8	
25	200'	10	14	17	21	24	28	55
30	200'	15	20	25	30	35	40	85
35	350'	20	27	34	40	47	54	120
40	350'	26	35	44	53	62	70	170
45	500'	45	59	74	89	104	119	220
50	500'	50	66	83	99	116	132	280
55	500'	54	73	91	109	127	145	335'

TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2020
DATE

/S/ Andrew Heidtke
STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER

FHWA

6

SDD 15D28 - 04

LEGEND

- SIGN ON TEMPORARY SUPPORT
- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET
0-30	200'
35-40	350'
45-55	500'

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

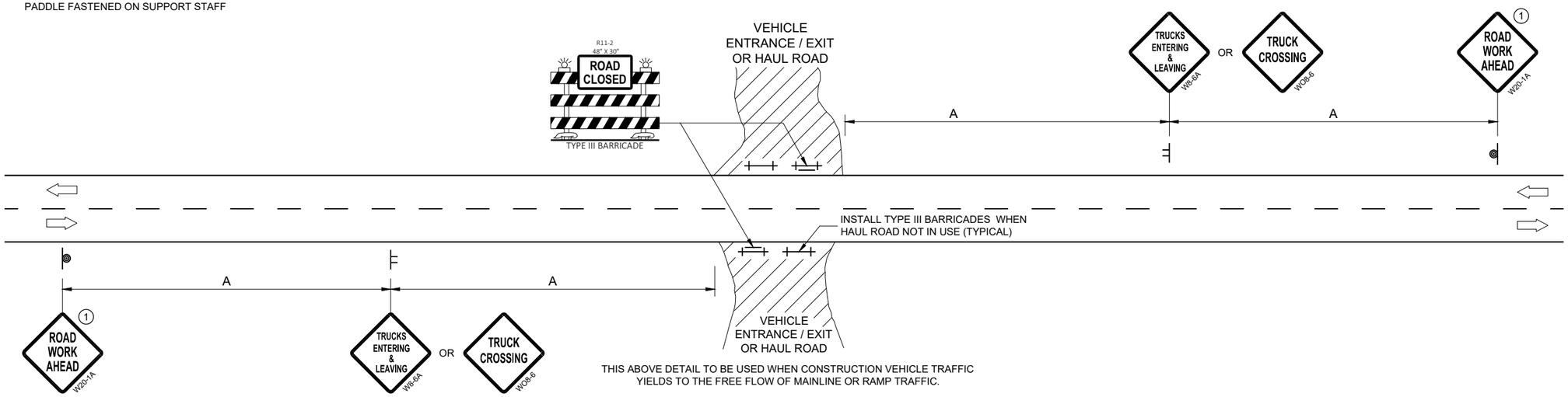
WARNING SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

WHEN ACTIVITY REFLECTED BY THE SIGN IS NOT CURRENTLY TAKING PLACE, THE HIGHWAY SHALL BE RESTORED TO NORMAL CONDITION AND THE SIGNS SHALL BE REMOVED, COVERED OR TURNED AWAY FROM TRAFFIC.

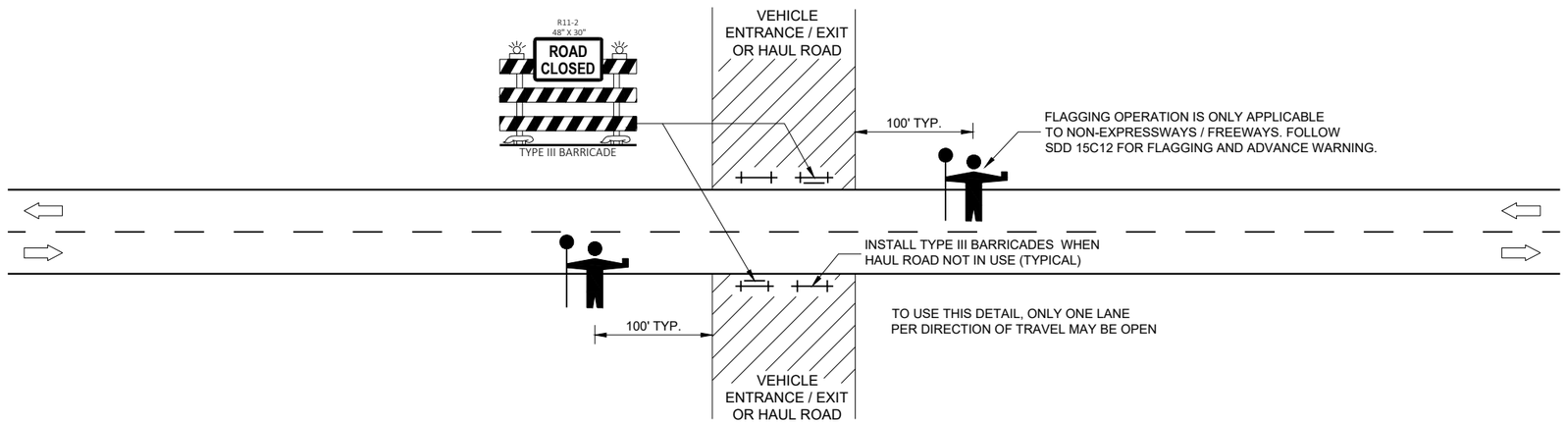
WHEN A SIDE ROAD OR RAMP INTERSECTS WITHIN THE ADVANCE SIGNING AREA, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND / OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

PLACE SIGNS ON BOTH SIDES IF USED ON DIVIDED HIGHWAY.

(1) THESE SIGNS ARE TO BE USED ONLY WHEN VEHICLE ENTRANCE / EXIT CONDITIONS ARE SEPARATED BY MORE THAN TWO MILES FROM PREVIOUS WORK AREA OR SIGNING OR AS DIRECTED BY THE ENGINEER.



THIS ABOVE DETAIL TO BE USED WHEN CONSTRUCTION VEHICLE TRAFFIC YIELDS TO THE FREE FLOW OF MAINLINE OR RAMP TRAFFIC.



TO USE THIS DETAIL, ONLY ONE LANE PER DIRECTION OF TRAVEL MAY BE OPEN

THIS DETAIL TO BE USED WHEN CONSTRUCTION WORK INCLUDING TRUCKING ACTIVITY REQUIRES MAINLINE TRAFFIC TO BE TEMPORARILY STOPPED IN ONE OR BOTH DIRECTIONS. DELAY TO HIGHWAY TRAFFIC SHALL BE MINIMIZED.

TRAFFIC CONTROL, VEHICLE ENTRANCE/EXIT OR HAUL ROAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

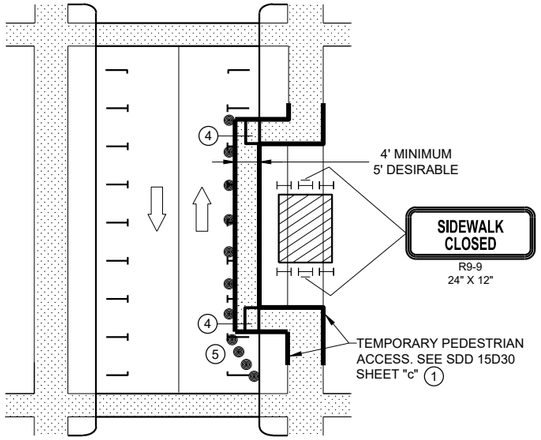
APPROVED
May 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

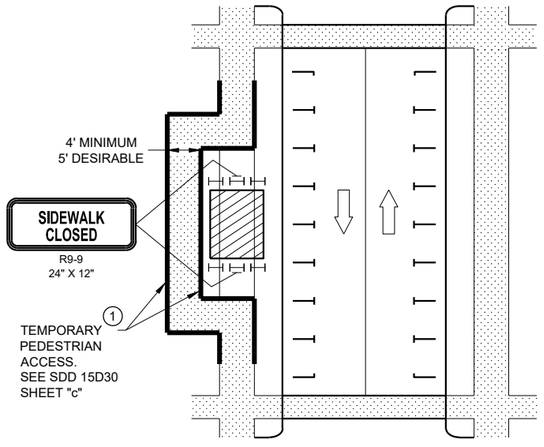
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SDD 15D29 - 06

NOTE: MAY BE USED ON ROADWAY WITH POSTED SPEED OF LESS THAN 40 MPH.

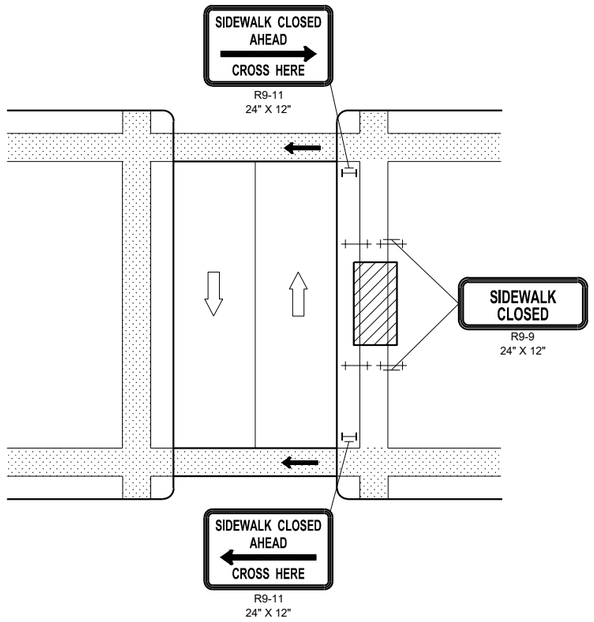


MID-BLOCK SIDEWALK CLOSURE IN PARKING LANE

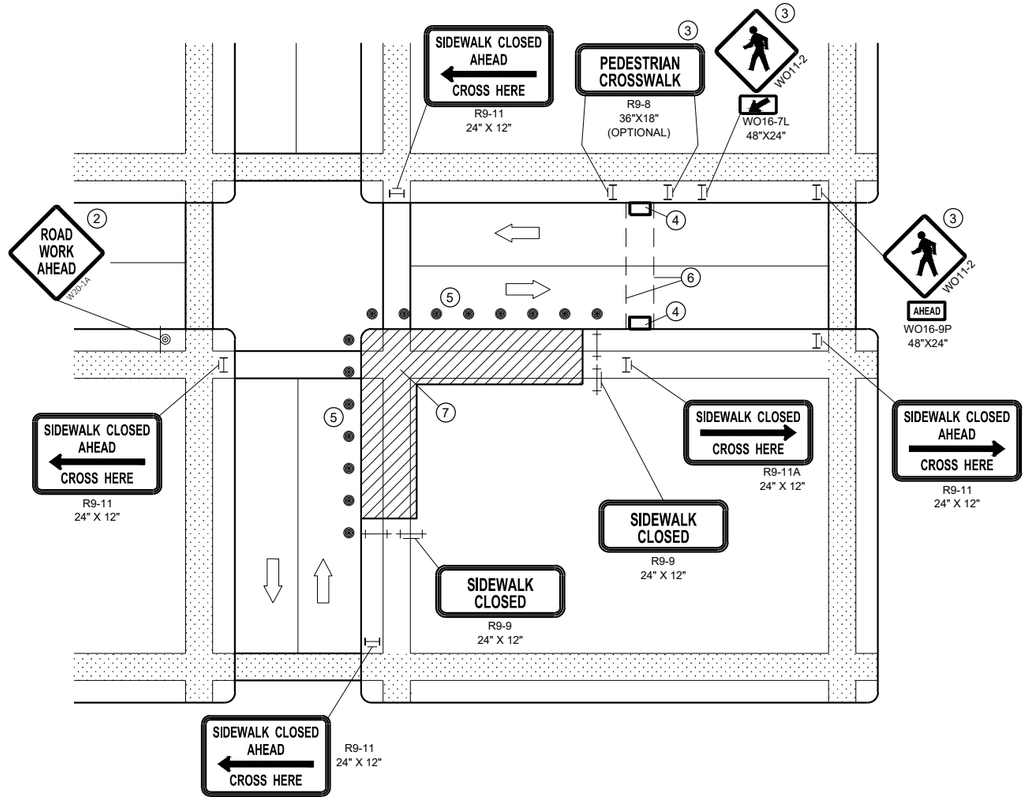
NOTE: LAYOUT SAME AS ABOVE.



SIDEWALK DIVERSION



MID-BLOCK SIDEWALK CLOSURE



CORNER SIDEWALK CLOSURE WITH TEMPORARY CROSSWALK

GENERAL NOTES

WHEN CLOSING OR RELOCATING CROSSWALKS OR SIDEWALKS, PROVIDE DETECABLE TEMPORARY FACILITIES AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH EXISTING PEDESTRIAN FACILITIES.

TEMPORARY TRAFFIC CONTROL DEVICES FOR PEDESTRIANS ARE SHOWN. OTHER DEVICES MAY BE NECESSARY TO CONTROL VEHICULAR TRAFFIC. STAGE WORK AS NECESSARY, TO PROVIDE A TEMPORARY PEDESTRIAN ACCESS ROUTE AT ALL TIMES. FOR ROADWAYS WITH NO AVAILABLE DETOURS, MAINTAIN ONE OPEN SIDEWALK AT ALL TIMES.

"WO" SIGN IS THE SAME AS "W" SIGN, EXCEPT THE BACKGROUND IS ORANGE.

FOR NIGHTIME CLOSURE, USE TYPE "A" FLASHING WARNING LIGHTS ON BARRICADES, SUPPORTING SIGNS AND CLOSING SIDEWALK. USE TYPE "C" STEADY BURN LIGHTS ON CHANNELIZING DEVICES SEPARATING THE WORK AREA FROM VEHICULAR TRAFFIC.

PEDESTRIAN TRAFFIC SIGNAL DISPLAY CONTROLLING CLOSED CROSSWALK SHALL BE COVERED OR DEACTIVATED.

POST MOUNTED SIGNS LOCATED ADJACENT TO A SIDEWALK SHALL HAVE A 7 FOOT MINIMUM CLEARANCE FROM THE BOTTOM OF THE SIGN TO THE SIDEWALK SURFACE.

ALTERNATE SIDEWALK WORK BETWEEK LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

(1) IF SIDEWALK CLOSURE AFFECTS AN ACCESSIBLE AND DETECTABLE FACILITY, MAINTAIN ACCESSIBILITY AND DETECTABILITY ALONG THE ALTERNATE PEDESTRIAN ROUTE

(2) "ROAD WORK AHEAD" SIGNS ARE NOT REQUIRED IF THE SIDEWALK CLOSURE OCCURS WITHIN A LARGER WORK ZONE WHERE ADVANCE WARNING SIGNS ARE ALREADY PRESENT, OR IF THE WORK AREA AND EQUIPMENT ARE MORE THAN 2 FEET BEHIND THE CURB.

(3) IF TEMPORARY PEDESTRIAN CROSSWALK IS NOT PROVIDED, OMIT R9-8 AND WO11-2 SIGN ASSEMBLIES. IF PROVIDED INCLUDE ON BOTH SIDES OF THE CROSSWALK.

(4) TEMPORARY CURB RAMPS. SEE SDD 15D30 SHEET "b'.

(5) DRUMS OR BARRICADES AT 25 FOOT SPACING. STREET PARKING SHALL BE PROHIBITED FOR AT LEAST 50 FEET IN ADVANCE OF THE MID-BLOCK CROSSWALK.

(6) TEMPORARY PAVEMENT MARKING FOR CROSSWALK LINES.

(7) LIMIT WORK TO ONE QUADRANT AT A TIME TO MINIMIZE PEDESTRIAN DISRUPTION.

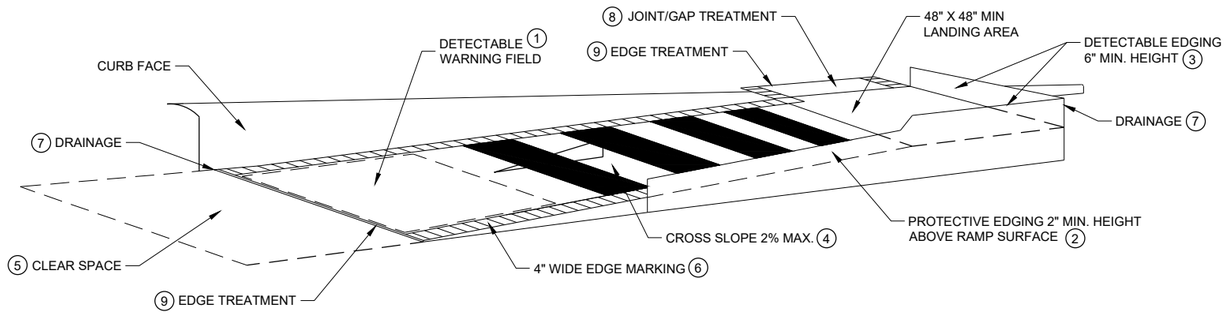
LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE II BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW INTENSITY FLASHING)
- TYPE III BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW INTENSITY FLASHING)
- UNDER PEDESTRIAN TRAFFIC
- WORK AREA
- PEDESTRIAN CHANNELIZATION DEVICE
- DIRECTION OF TRAFFIC

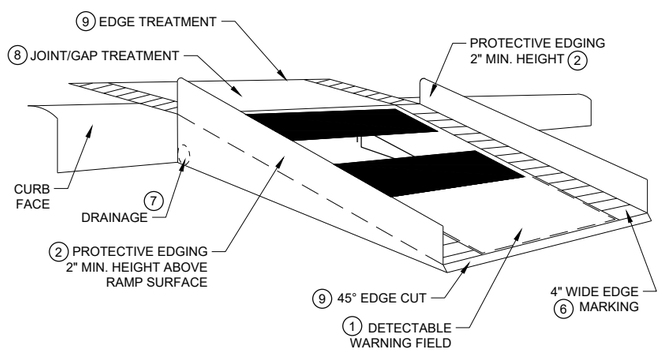
TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

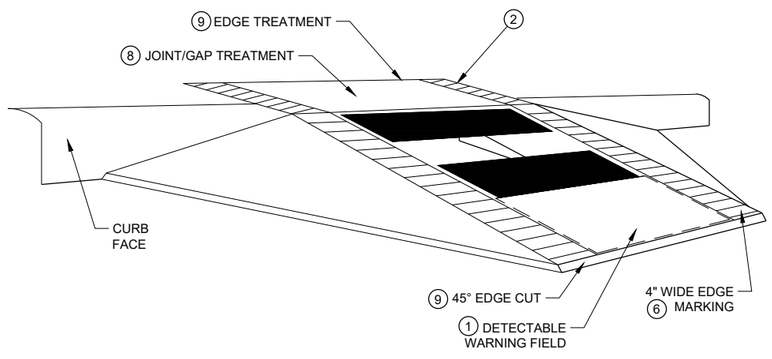
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SDD15D30 - 06a



TEMPORARY CURB RAMP PARALLEL TO CURB



WITH PROTECTIVE EDGE



WITH SIDE APRON

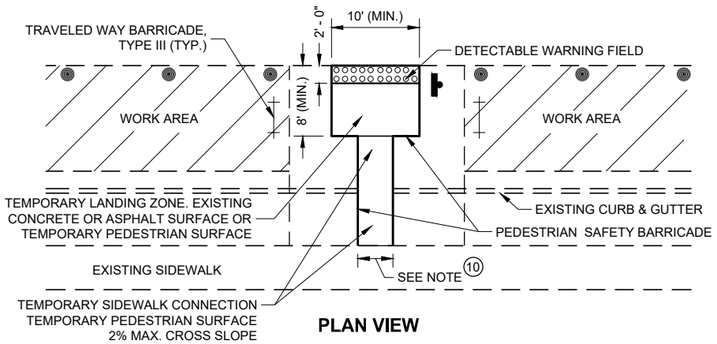
TEMPORARY CURB RAMP PERPENDICULAR TO CURB

GENERAL NOTES

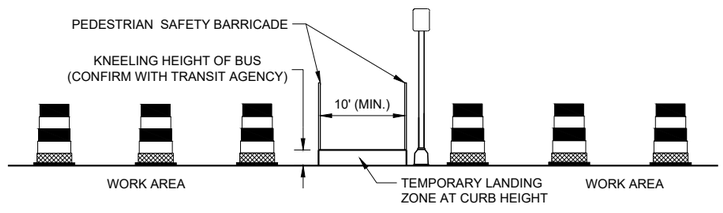
NOTIFY THE BUS COMPANY 7 DAYS IN ADVANCE OF THE BUS STOP RELOCATION.

ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

1. CURB RAMPS SHALL BE 48" MIN. WIDTH WITH A A FIRM, STABLE AND SLIP RESISTANT SURFACE. INSTALL CONTRASTING DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS. REFER TO SDD 08D05, SHEET "e".
2. PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.
3. DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
4. CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.
5. CLEAR SPACE OF 48" X 48" SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.
6. THE CURB RAMP WALKWAY EDGE SHALL BE MARKED WITH A YELLOW COLOR, 4" WIDE MARKING, UNLESS A CONTRASTING DETECTABLE WARNING FIELD IS PROVIDED.
7. DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.
8. LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN ½" WIDTH.
9. CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED ½". LATERAL EDGES SHALL BE VERTICAL UP TO ¼" HIGH AND BEVELED AT 1:2 BETWEEN ¼" AND ½".
10. 5" WIDE MIN. WITH PEDESTRIAN SAFETY BARRICADE, 10' WIDE MIN. WITHOUT PEDESTRIAN SAFETY BARRICADE.



PLAN VIEW



PROFILE VIEW

TEMPORARY BUS STOP PAD

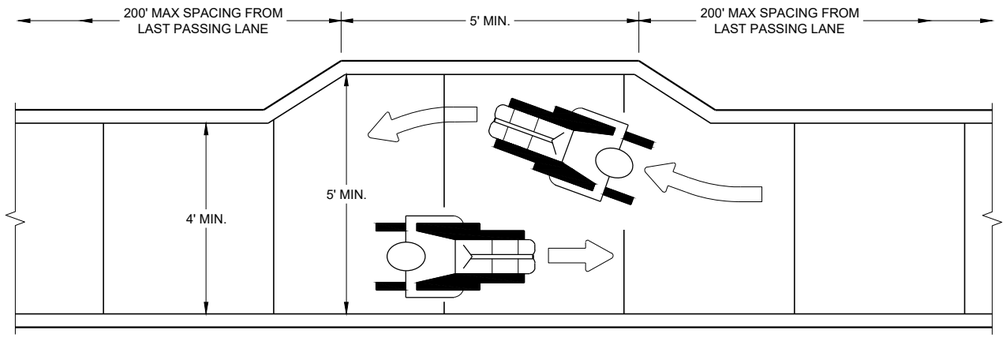
LEGEND

- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE
- WORK AREA

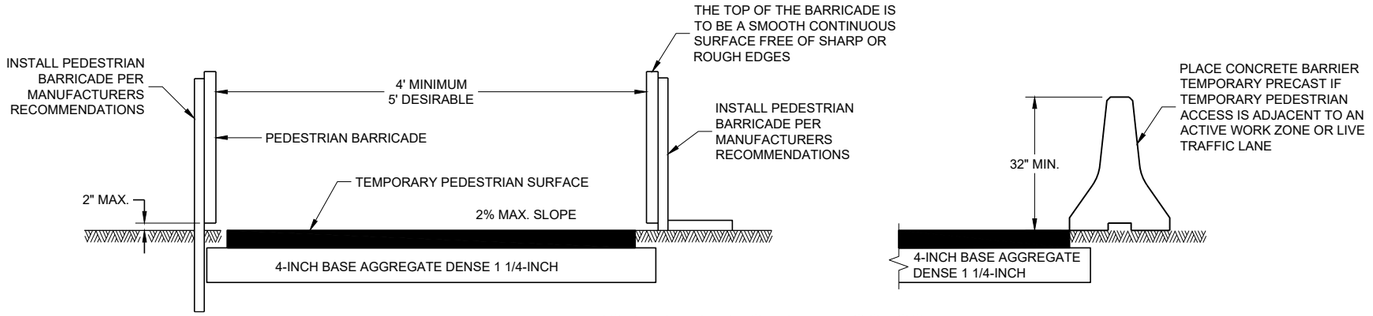
TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

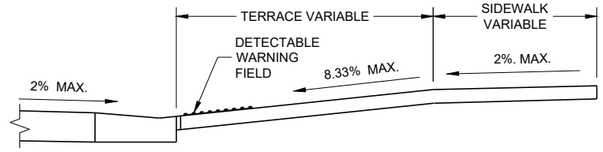
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SDD 15D30 - 06b



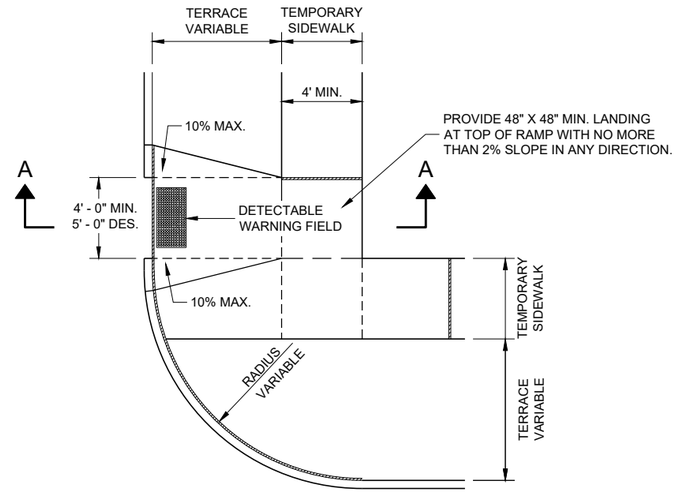
NARROW SIDEWALK PASSING DETAIL



TEMPORARY PEDESTRIAN ACCESS



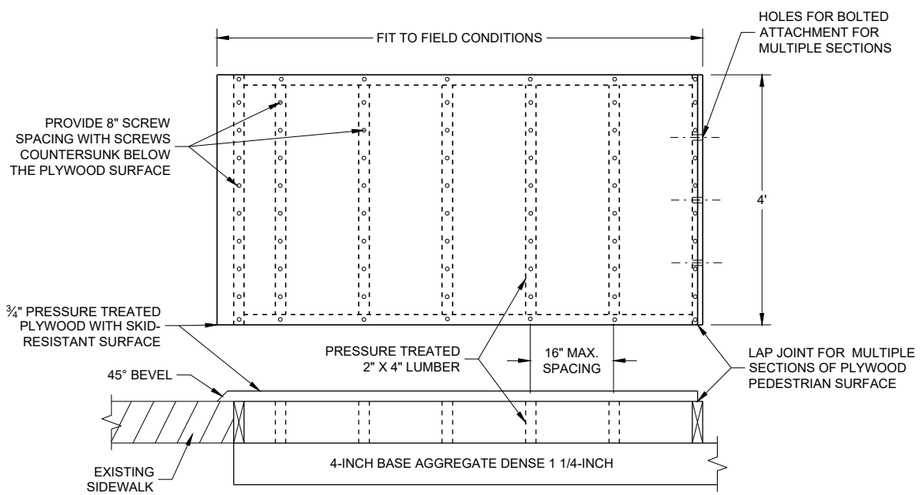
SECTION A - A



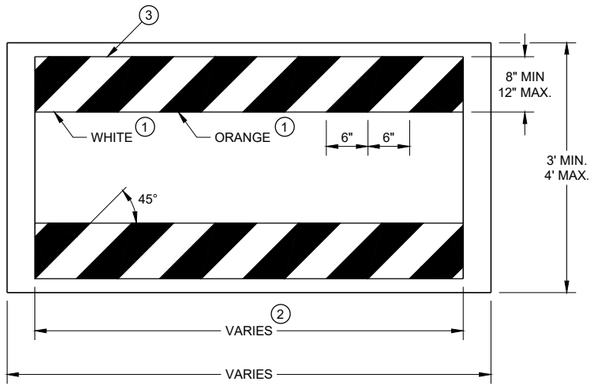
PLAN VIEW

TEMPORARY TYPE 3 RAMP

(OUTSIDE OF CROSSWALK AREA)



TEMPORARY PEDESTRIAN SURFACE PLYWOOD



TEMPORARY PEDESTRIAN BARRICADE *

GENERAL NOTES

BARRICADE DEVICE SELECTED FROM APPROVED PRODUCT LIST

(1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

(2) SHEETING REQUIRED ON MORE THAN 50% OF BARRICADE WIDTH.

(3) PLACE SHEETING ON BOTH SIDES OF THE BARRICADE.

* USE THIS DETAIL FOR SHEETING PLACEMENT REFERENCE.

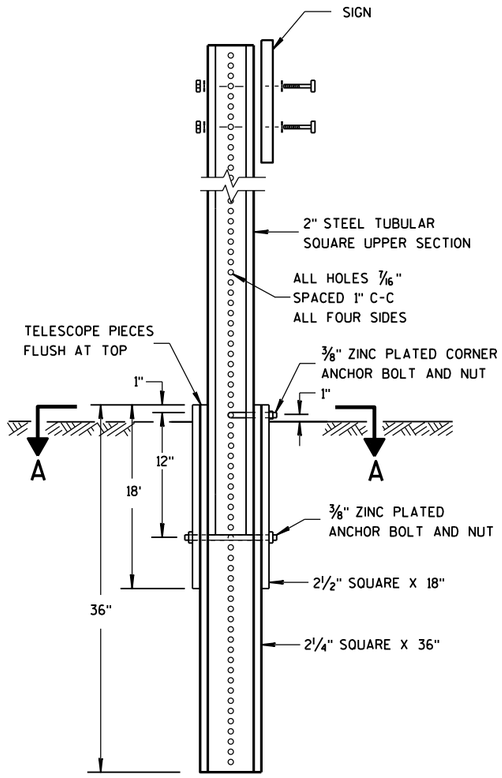
TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

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DEPARTMENT OF TRANSPORTATION

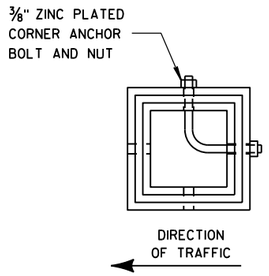
APPROVED
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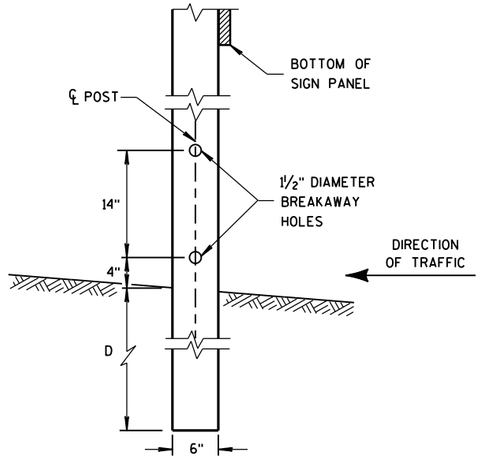
SDD 15D30 - 06c



DETAIL OF TUBULAR STEEL SIGN POST



SECTION A-A



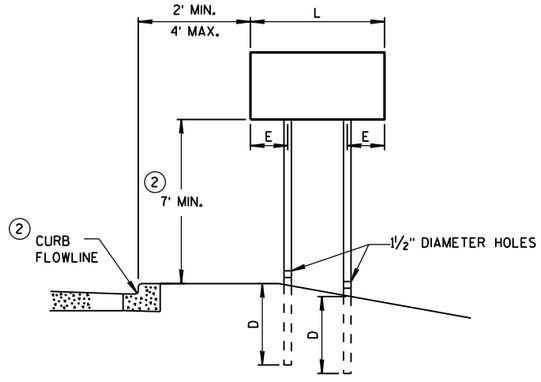
4"x6" WOOD POST MODIFICATION

GENERAL NOTES

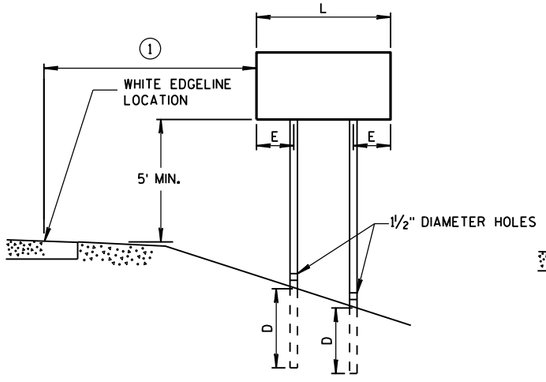
(1) 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.

(2) THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK AND NO PARKING, VERTICAL CLEARANCE MAY BE REDUCED TO 5 FOOT MINIMUM. OFFSET OF SIGNS IS MEASURED FROM THE CURB FLOWLINE.

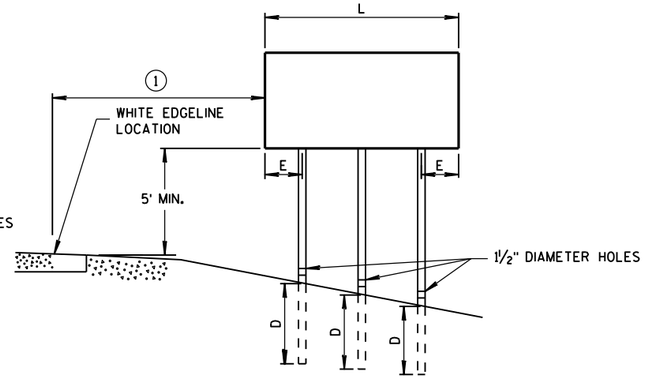
(3) FOR SIGNS REQUIRING 4 POSTS, SPACE INTERMEDIATE POSTS EVENLY.



URBAN AREA



RURAL AREA



POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SQ. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EQUAL TO 18	2
GREATER THAN 18 LESS THAN OR EQUAL TO 27	3

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SQ. FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE).

SIGNS LARGER THAN 27 SQ. FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

WOOD POST EMBEDMENT DEPTH

AREA OF SIGN INSTALLATION (SQ. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

POST SPACING REQUIREMENTS		NUMBER OF WOOD POSTS REQUIRED
L	E	
48" OR LESS AND LESS THAN 20 SQ. FT.	-	1
LESS THAN 60"	12"	2
60" TO 120"	L/5	2
GREATER THAN 120" LESS THAN 168"	12"	3
168" AND GREATER	12"	4

SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

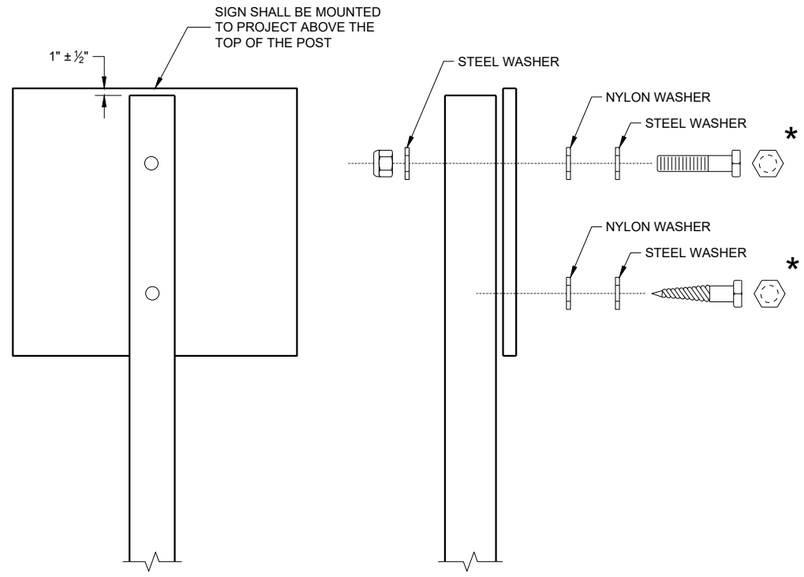
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 15 D 38-2a

6

S.D.D. 15 D 38-2a



NUTS, BOLTS AND LAGS USED FOR MOUNTING SIGNS SHALL HAVE HEXAGONAL HEADS AND SHALL BE EITHER:

A. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: A 153, CLASS D, OR SC 3
B. ELECTRO-GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: B 633, TYPE III, SC 3

THREADS ON BOLTS AND NUTS SHALL BE MANUFACTURED WITH SUFFICIENT ALLOWANCE FOR THE CADMIUM PLATE OR GALVANIZED COATING TO PERMIT THE NUTS TO RUN FREELY ON THE BOLTS.

WOOD POST (4" x 6")
LAG SCREWS - ⅜" x 3"
MACHINE BOLTS - 5/16" x 6 ½" OR 7" LENGTH W/NUTS

SQUARE STEEL POST (2" x 2")
MACHINE BOLTS - ⅜" x 3 ¼" LENGTH W/NUTS
RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE 0.720 - 0.765 INCH, GRIP RANGE 0.042 - 0.375 INCH

WASHERS (ALL POSTS) -
1 ¼" O.D. x ⅜" I.D. x 1/16" STEEL
1 ¼" O.D. x ⅜" I.D. x 0.080 NYLON

* TWO DIFFERENT FASTENING SYSTEMS ARE SHOWN FOR ILLUSTRATION PURPOSES. ON ANY INDIVIDUAL SIGN, EITHER ONE OR THE OTHER SYSTEM SHALL BE USED. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

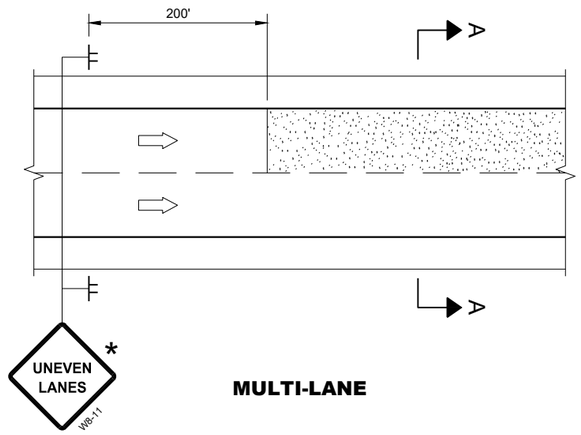
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ATTACHMENT OF SIGNS TO POSTS

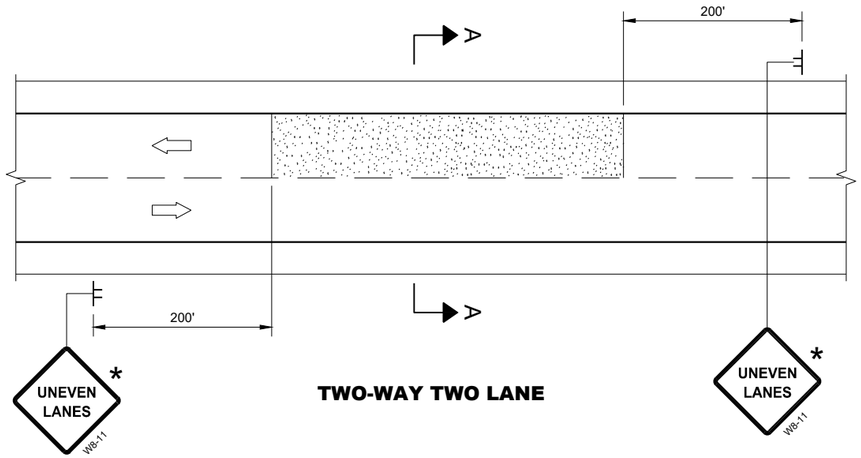
STATE OF WISCONSIN
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APPROVED
June 2017
DATE
/S/ Andrew Heidtke
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FHWA

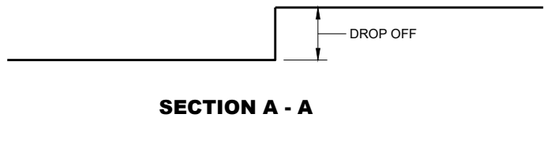
SDD 15D38 - 02b



MULTI-LANE

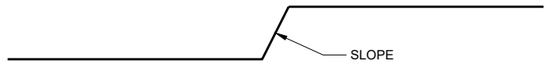


TWO-WAY TWO LANE

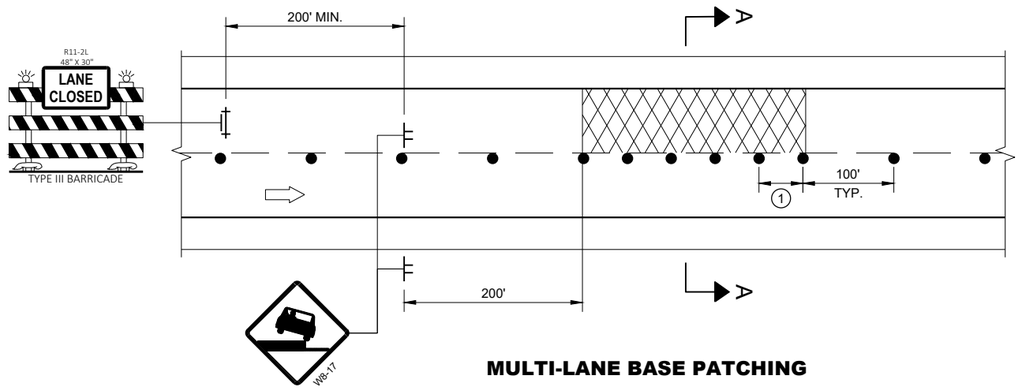


SECTION A - A

OR



SECTION A - A



MULTI-LANE BASE PATCHING

ADJACENT LANE DROP-OFFS

GENERAL NOTES

FOR SPOT LOCATIONS USE ENGINEERING JUDGEMENT WHEN PLACING ADDITIONAL SIGNS.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

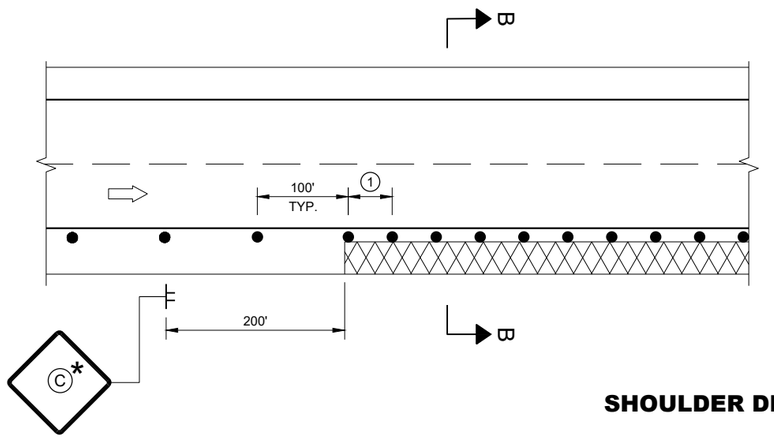
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

* IF THE DROP-OFF IS CONTINUOUS ALONG THE PROJECT, PLACE ADDITIONAL SIGNS EVERY 1 MILE AND AFTER EVERY ENTRANCE RAMP.

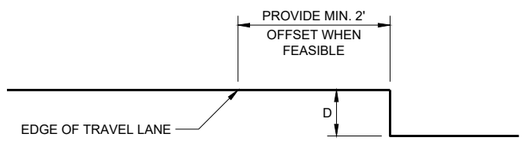
(1) USE CLOSER SPACING WHEN DELINEATING DROP-OFF.

LEGEND

- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA WITH DROP-OFF
- MILLED SURFACE



SHOULDER DROP-OFFS



SECTION B - B

D	SIGN (C)
< 2" WITH A SLOPE STEEPER THAN 3:1	LOW SHOULDER WO8-9
2" < 6" WITH A SLOPE STEEPER THAN 3:1	SHOULDER DROP - OFF W8-9A PROVIDE A 3:1 OR FLATTER SLOPE OF MATERIAL ADJACENT TO THE PAVEMENT

TRAFFIC CONTROL, DROP-OFF SIGNING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

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SDD 15D39 - 02

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA
- REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIREABLE) DISTANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR LANE SHIFT RIGHT - REVERSE FOR SHIFTING LEFT.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON ANY "COVERED" OR "DOWNED" SIGNS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

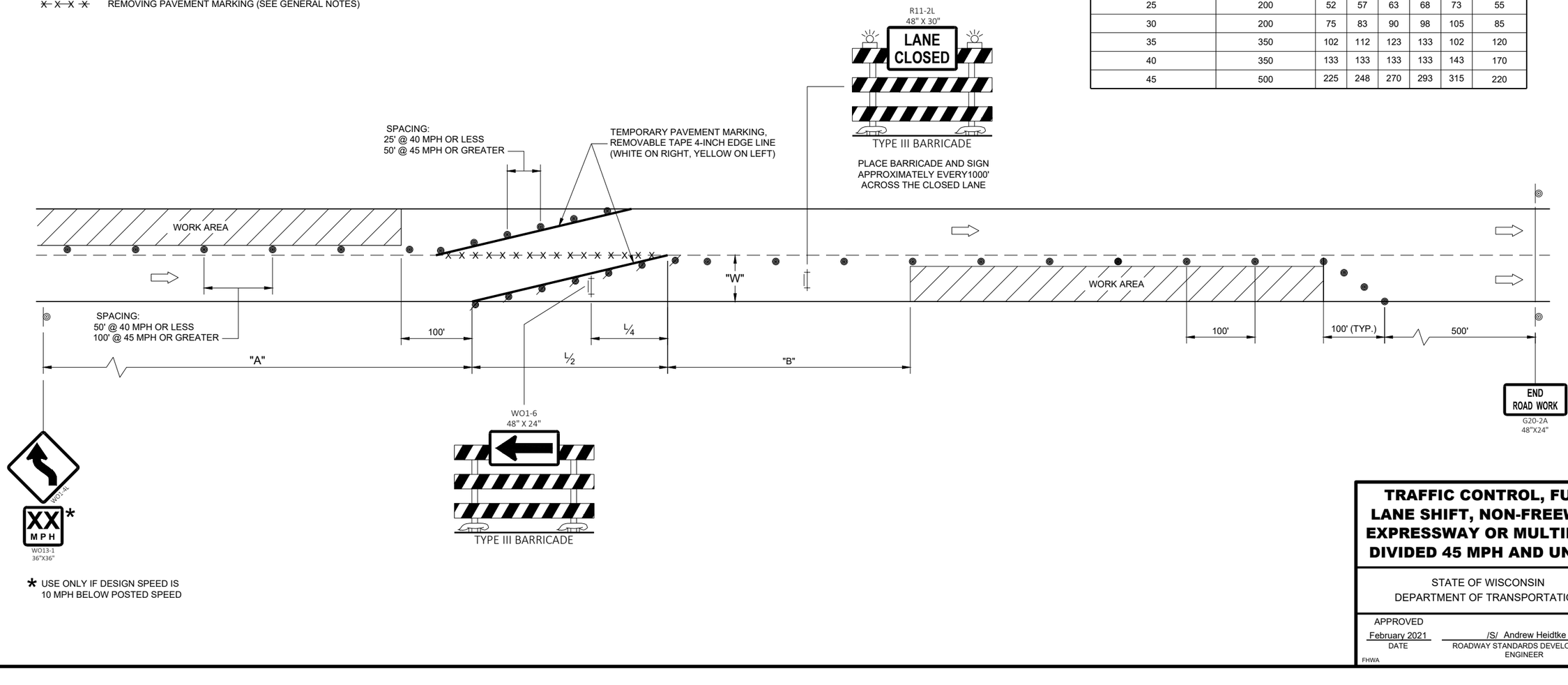
REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN 4 OR MORE DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE SHIFT OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE SHIFT MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	SHIFTING TAPER L/2 W, LATERAL OFFSET (FT)					BUFFER SPACE (B) FEET
		10	11	12	13	14	
25	200	52	57	63	68	73	55
30	200	75	83	90	98	105	85
35	350	102	112	123	133	102	120
40	350	133	133	133	133	143	170
45	500	225	248	270	293	315	220



TRAFFIC CONTROL, FULL LANE SHIFT, NON-FREEWAY/ EXPRESSWAY OR MULTILANE DIVIDED 45 MPH AND UNDER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2021 — DATE
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FHWA

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SDD 15D40 - 02a

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA
- REMOVE PAVEMENT MARKING

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIRABLE) DISTANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR LANE SHIFT LEFT - REVERSE FOR SHIFTING RIGHT.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON ANY "COVERED" OR "DOWNED" SIGNS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN 4 OR MORE DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

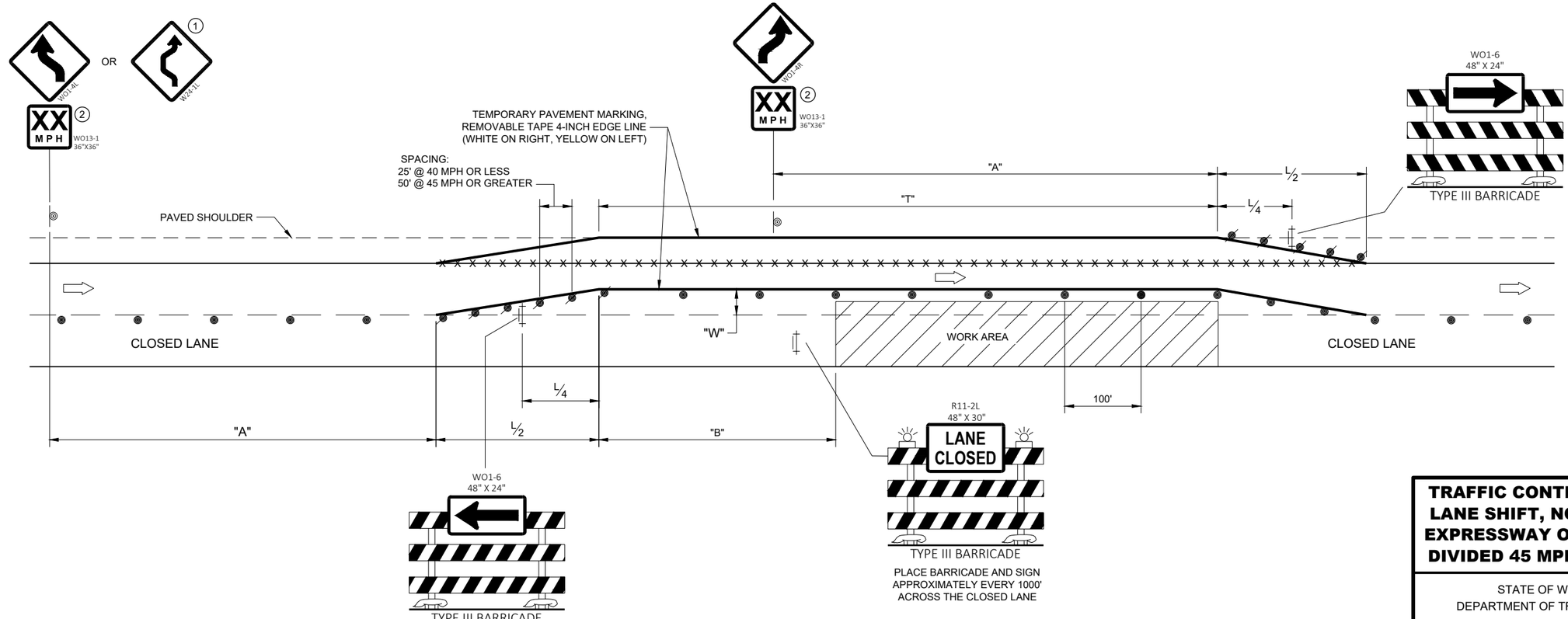
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(1) USE ONLY WHEN T<600', OMIT WO1-4R.

(2) IF NEEDED, USE ONLY IF DESIGN SPEED IS 10 MPH BELOW POSTED SPEED.

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	SHIFTING TAPER L/2 W, LATERAL OFFSET (FT)									BUFFER SPACE (B) FEET
		1	2	3	4	5	6	7	8	9	
25	200	5	10	16	21	26	31	36	42	47	55
30	200	8	15	23	30	38	45	53	60	68	85
35	350	10	20	31	41	51	61	71	82	92	120
40	350	13	27	40	53	67	80	93	107	120	170
45	500	23	45	68	90	113	135	158	180	203	220



TRAFFIC CONTROL, PARTIAL LANE SHIFT, NON-FREEWAY/ EXPRESSWAY OR MULTILANE DIVIDED 45 MPH AND UNDER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2021
DATE

/S/ Andrew Heidtke
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

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SDD 15D40 - 02c

LEGEND

TYPE III BARRICADE WITH ATTACHED SIGN

SIGN ON PERMANENT SUPPORT

TRAFFIC CONTROL DRUM

DIRECTION OF TRAFFIC

CONCRETE BARRIER TEMPORARY PRECAST

TYPE "A" WARNING LIGHT (FLASHING)

WORK AREA

L, TAPER LENGTH (MPH)							
SPEED (MPH)	W, LATERAL OFFSET (FT)						
	10	11	12	13	14	15	16
45	450	495	540	585	630	675	720
50	500	550	600	650	700	750	800
55	550	605	660	715	770	825	880
60	600	660	720	780	840	900	960
65	650	715	780	845	910	975	1040
70	700	770	840	910	980	1050	1120



OR



LOCATED 3000 FEET BEYOND THE "ROAD WORK 1 MILE" (W20-1F) SIGN



R2-1 48"X60"

OR



R2-1 48"X60"

(BLACK AND WHITE) LOCATED 700 FEET BEYOND THE W03-5 SIGN

IF THE REGULATORY SPEED HAS BEEN REDUCED, A SPEED LIMIT SIGN SHALL BE LOCATED 1500 FEET BEYOND THE END OF THE ACCELERATION LANE OF EACH ENTRANCE RAMP. PLACE A SPEED LIMIT SIGN INCORPORATED A MINIMUM OF EVERY 3 MILES.

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIREABLE) DISTANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR LANE SHIFT RIGHT - REVERSE FOR SHIFTING LEFT.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

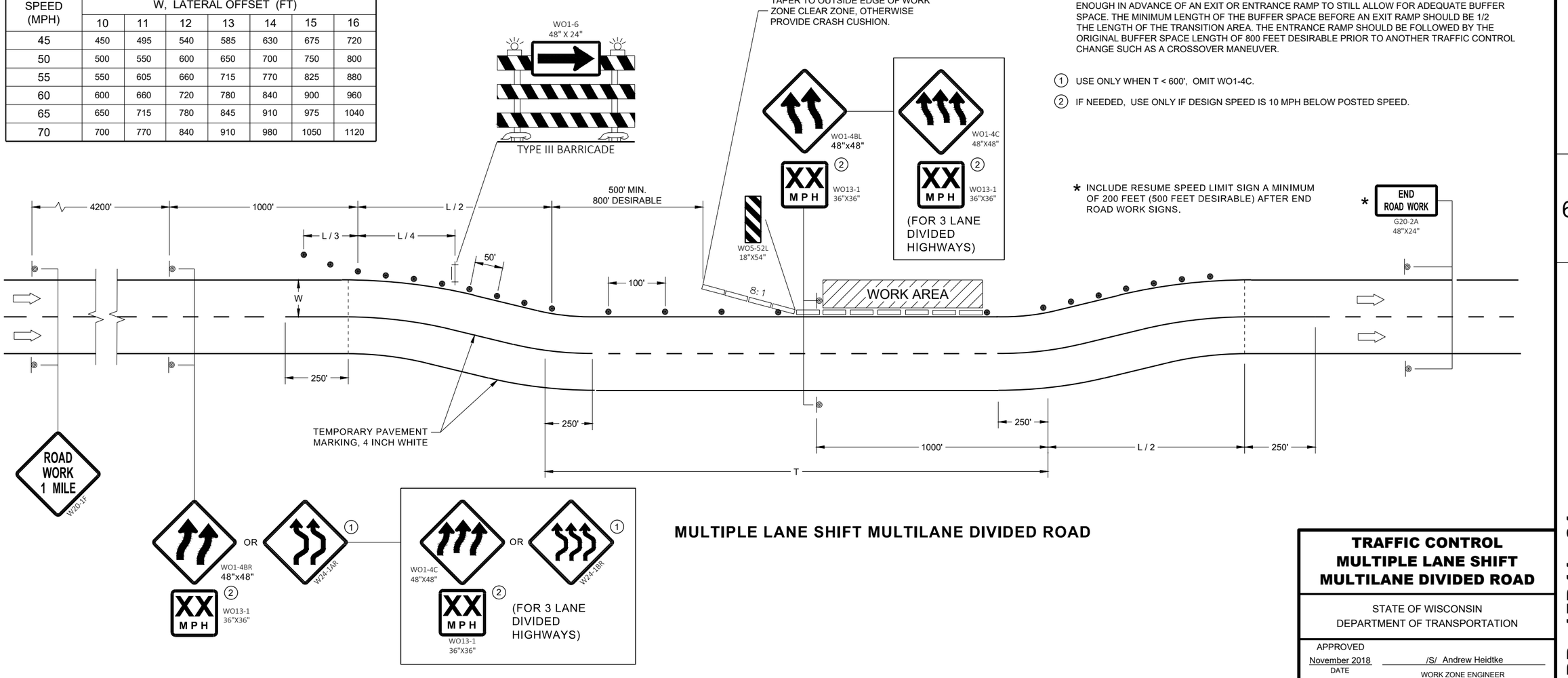
REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN 4 OR MORE DAYS AND NIGHTS.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE SHIFT OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE SHIFT MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

(1) USE ONLY WHEN T < 600', OMIT WO1-4C.

(2) IF NEEDED, USE ONLY IF DESIGN SPEED IS 10 MPH BELOW POSTED SPEED.



MULTIPLE LANE SHIFT MULTILANE DIVIDED ROAD

TRAFFIC CONTROL
MULTIPLE LANE SHIFT
MULTILANE DIVIDED ROAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

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SDD 15D41 - 01

6

SDD 15D41 - 01

GENERAL NOTES

DRAWING NOT TO SCALE. ALL SIGNS AND POSTS ON THIS SHEET SHALL BE PAID FOR WITH 'TRAFFIC CONTROL SIGNS' BID ITEM. ALL SIDE ROADS WHICH ARE UNDER CONSTRUCTION OF CURB AND GUTTER AND/OR GRADING SHALL BE ADEQUATELY SIGNED.

ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE WISCONSIN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD). SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISDOT STANDARD SIGN PLATES.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THAT THE BACKGROUND IS ORANGE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE CONTROL ZONE, INCLUDING PRE-EXISTING SIGNS IN THE VICINITY, SHALL BE COVERED OR REMOVED AS DIRECTED BY THE ENGINEER.

SEE 15C34 FOR ADDITIONAL TRAFFIC CONTROL SIGNING WHEN CENTERLINE PAVEMENT MAKINGS ARE MISSING. 'DO NOT PASS' SIGNS MUST BE INSTALLED ON THE SAME DAY AS MILLING OPERATIONS.

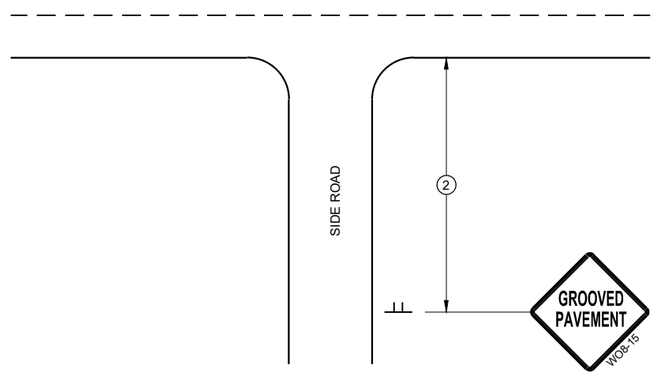
(1) PLACE SIGNS 350' IN ADVANCE OF MILLED SURFACES AND AT 1 MILE INTERVALS, OR AS DIRECTED BY THE ENGINEER.

(2) PLACE SIGN 200' MIN. FROM INTERSECTION AND 200' MIN. AFTER ADVANCE WARNING SIGN SHOWN IN SDD 15C04.

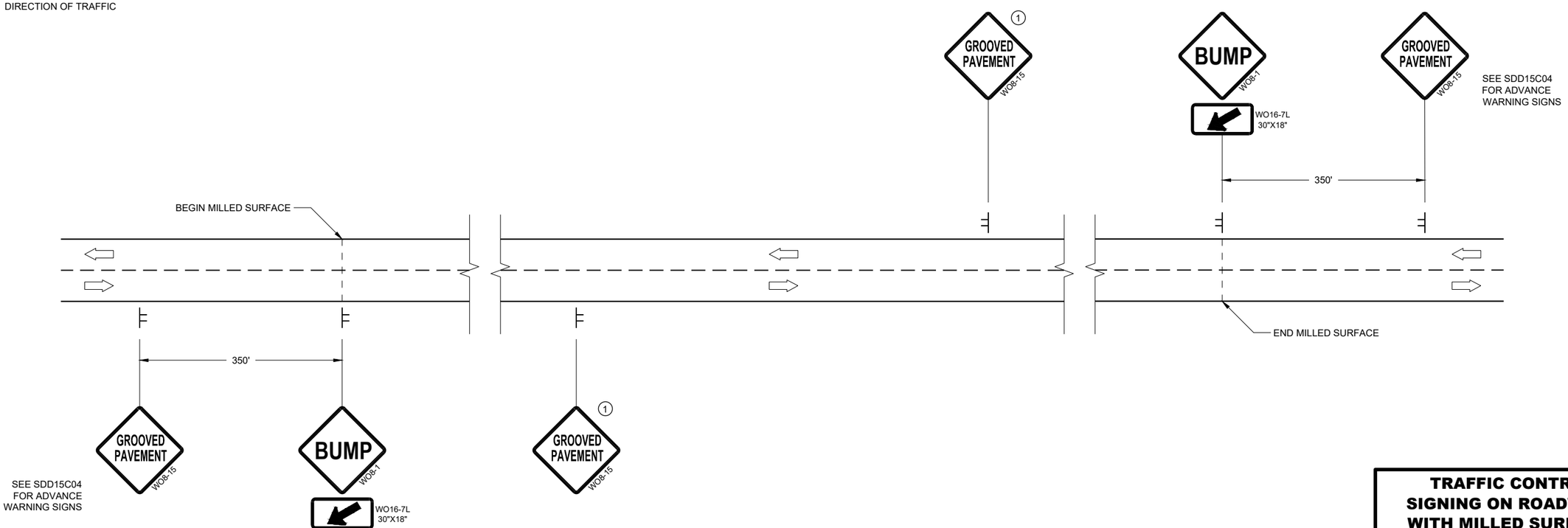
LEGEND

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC



TYPICAL SIDE ROAD APPROACH SIGN DETAIL



DETAIL FOR SIGNING ON MILLED SURFACES

TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

6
SDD 15D44 - 02

GENERAL NOTES

DRAWING NOT TO SCALE. ALL SIGNS AND POSTS ON THIS SHEET SHALL BE PAID FOR WITH 'TRAFFIC CONTROL SIGNS' BID ITEM. ALL SIDE ROADS WHICH ARE UNDER CONSTRUCTION OF CURB AND GUTTER AND/OR GRADING SHALL BE ADEQUATELY SIGNED.

ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE WISCONSIN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD). SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISDOT STANDARD SIGN PLATES.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THAT THE BACKGROUND IS ORANGE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE CONTROL ZONE, INCLUDING PRE-EXISTING SIGNS IN THE VICINITY, SHALL BE COVERED OR REMOVED AS DIRECTED BY THE ENGINEER.

SEE 15C34 FOR ADDITIONAL TRAFFIC CONTROL SIGNING WHEN CENTERLINE PAVEMENT MAKINGS ARE MISSING. 'DO NOT PASS' SIGNS MUST BE INSTALLED ON THE SAME DAY AS MILLING OPERATIONS.

(1) PLACE SIGNS 350' IN ADVANCE OF CHIP SEALED OR LOOSE GRAVEL SURFACES AND AT 1 MILE INTERVALS, OR AS DIRECTED BY THE ENGINEER.

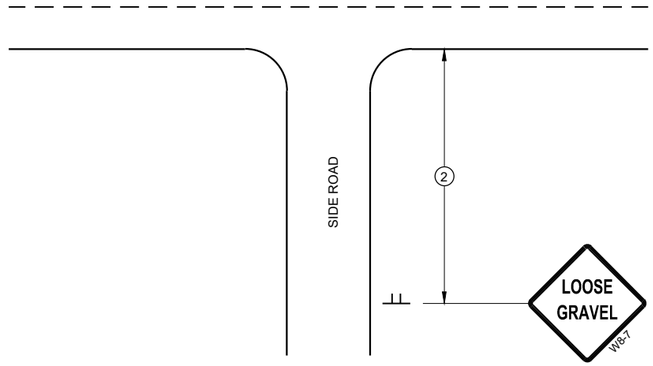
(2) PLACE SIGN 200' MIN. FROM INTERSECTION AND 200' MIN. AFTER ADVANCE WARNING SIGN SHOWN IN SDD 15C04.

(3) ADD WO8-1 OR WO8-2 SIGN WHEN THE CONDITION IS PRESENT.

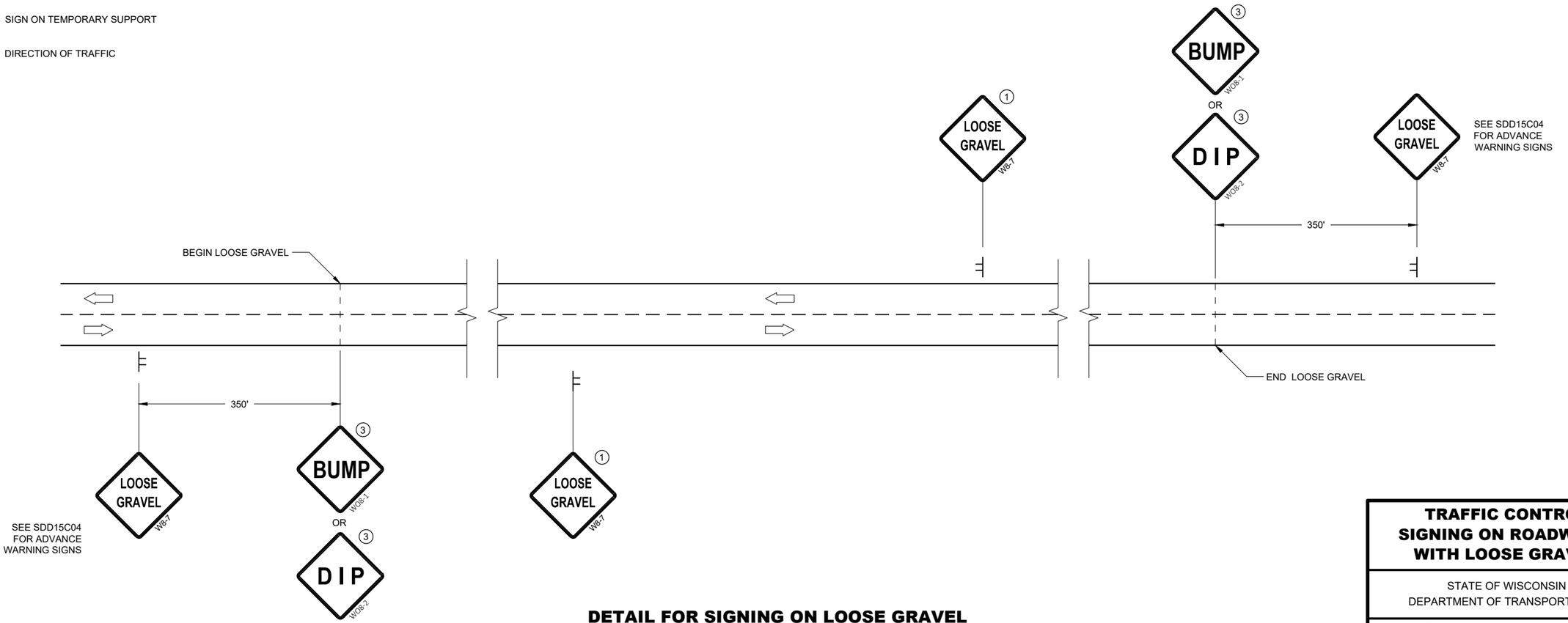
LEGEND

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC



TYPICAL SIDE ROAD APPROACH SIGN DETAIL



DETAIL FOR SIGNING ON LOOSE GRAVEL OR CHIP SEALED SURFACES

TRAFFIC CONTROL SIGNING ON ROADWAYS WITH LOOSE GRAVEL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2021
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

6

SDD 15D45 - 03

6

SDD 15D45 - 03

LEGEND

- EXISTING SIGN ON PERMANENT SUPPORT
- NEW SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK ZONE

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

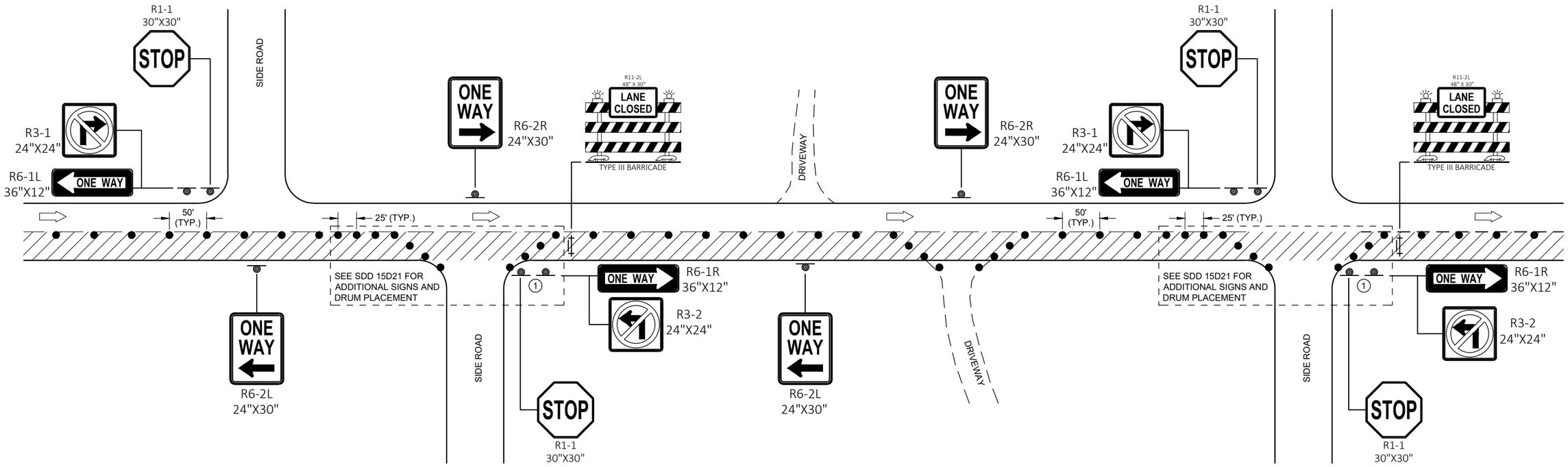
ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE WISCONSIN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD). SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISDOT STANDARD SIGN PLATES.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

(1) IF WORK OPERATIONS ALLOWS, MOVE R1-1, R6-1R, AND R3-2 CLOSER TO INTERSECTION.



TRAFFIC CONTROL
ONE - WAY SIGNING

TRAFFIC CONTROL ONE-WAY SIGNING	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED May 2020 DATE	/S/ Andrew Heidtke WORK ZONE ENGINEER
FHWA	

6
SDD 15D46 - 01

LEGEND

SIGN ON PERMANENT SUPPORT

TRAFFIC CONTROL DRUM

TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT

TYPE III BARRICADE WITH ATTACHED SIGN

DIRECTION OF TRAFFIC

CONSTRUCTION TRAFFIC

WORK AREA

TABLE 1

S (MPH)	INGRESS, L	EGRESS, L
50	435'	720'
55	480'	960'
60	530'	1200'
65	570'	1410'
70	615'	1620'

LEGEND

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

WORK ZONE INGRESS/EGRESS LOCATIONS SHALL BE APPROVED BY THE ENGINEER. LOCATIONS FOR WORK ZONE ACCESS TO/FROM THE FREEWAY SHALL NOT BE USED FOR INGRESS AND EGRESS AT THE SAME TIME.

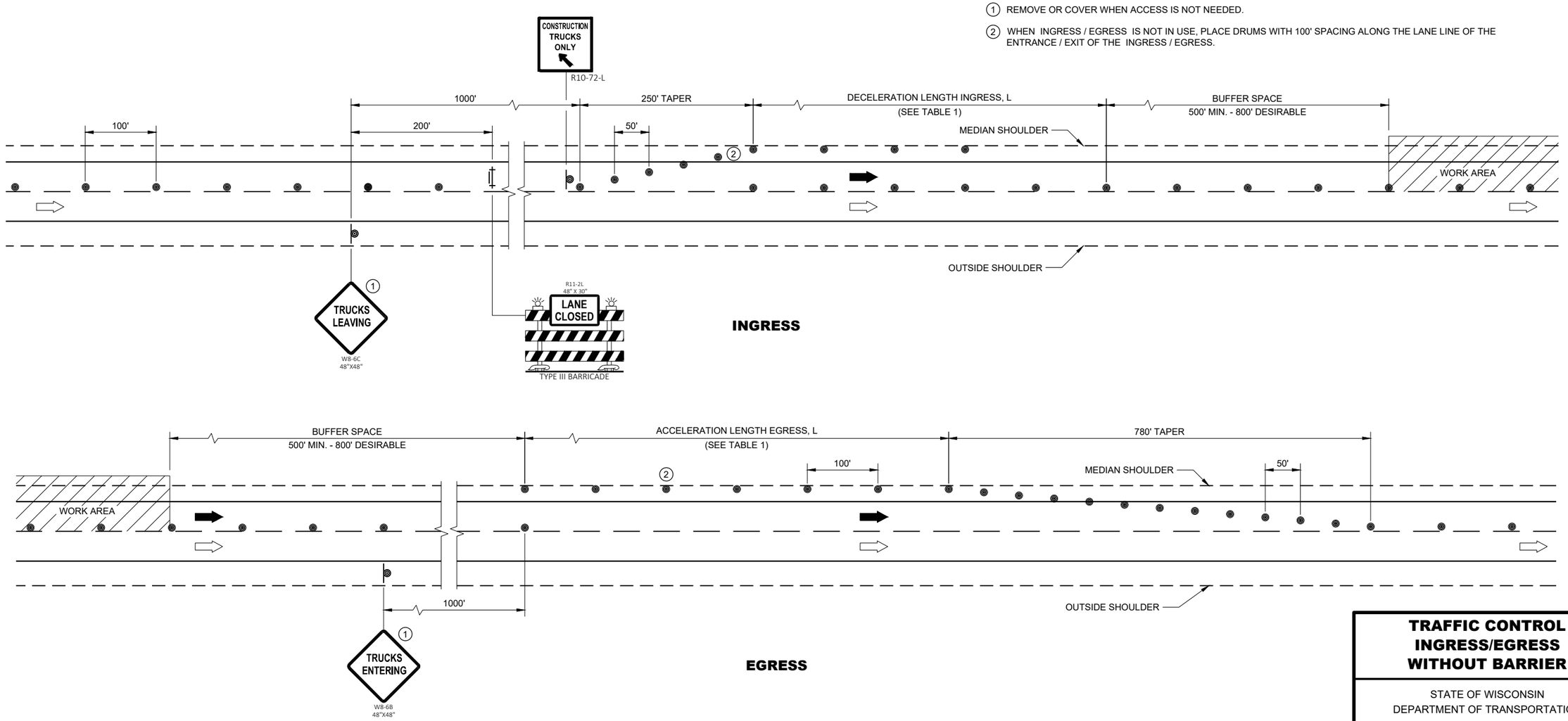
THIS ACCESS DETAIL IS TYPICAL FOR LEFT LANE ACCESS, FOR RIGHT LANE ACCESS, REVERSE THE TRAFFIC CONTROL

TEMPORARY SUPPORTS MAY BE USED IF PLACED BEHIND TEMPORARY BARRIER WALL

TRUCKS SHALL USE FLASHING YELLOW BEACON WHEN ENTERING AND EXITING LIVE TRAFFIC.

(1) REMOVE OR COVER WHEN ACCESS IS NOT NEEDED.

(2) WHEN INGRESS / EGRESS IS NOT IN USE, PLACE DRUMS WITH 100' SPACING ALONG THE LANE LINE OF THE ENTRANCE / EXIT OF THE INGRESS / EGRESS.



TRAFFIC CONTROL INGRESS/EGRESS WITHOUT BARRIER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

May 2020
DATE

/S/ Andrew Heidtke
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

6

SDD 15D47 - 01b

6

SDD 15D47 - 01b

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	SHIFTING TAPER L/2 W, LATERAL OFFSET (FT)					
		3	4	5	6	7	8
25	200	10	14	17	21	24	28
30	200	15	20	25	30	35	40
35	350	20	27	34	40	47	54
40	350	26	35	44	53	62	70
45	500	45	59	74	89	104	119
50	500	50	66	83	99	116	132
55	500	54	73	91	109	127	145

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36"x36" SIGNS MAY BE USED IF APPROVED BY THE REGIONAL TRAFFIC UNIT.

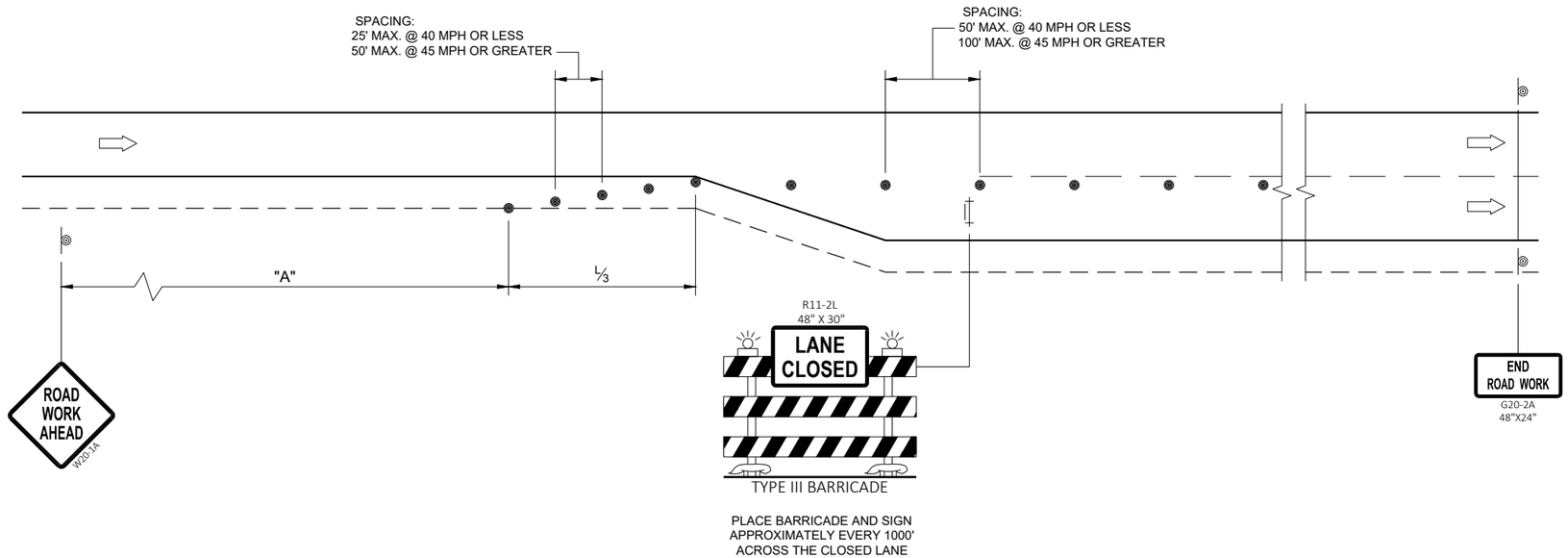
"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

W20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION WORK IS LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS.



PLACE BARRICADE AND SIGN APPROXIMATELY EVERY 1000' ACROSS THE CLOSED LANE

ADDED LANE CLOSURE WITHOUT LANE SHIFT

TRAFFIC CONTROL
ADDED LANE CLOSURE
WITHOUT LANE SHIFT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2021
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

6

SDD 15D50 - 01a

6

SDD 15D50 - 01a

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	SHIFTING TAPER (L/2) FEET
25	200	60
30	200	90
35	350	120
40	350	160
45	500	270
50	500	300
55	500	330

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36"x36" SIGNS MAY BE USED IF APPROVED BY THE REGIONAL TRAFFIC UNIT.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

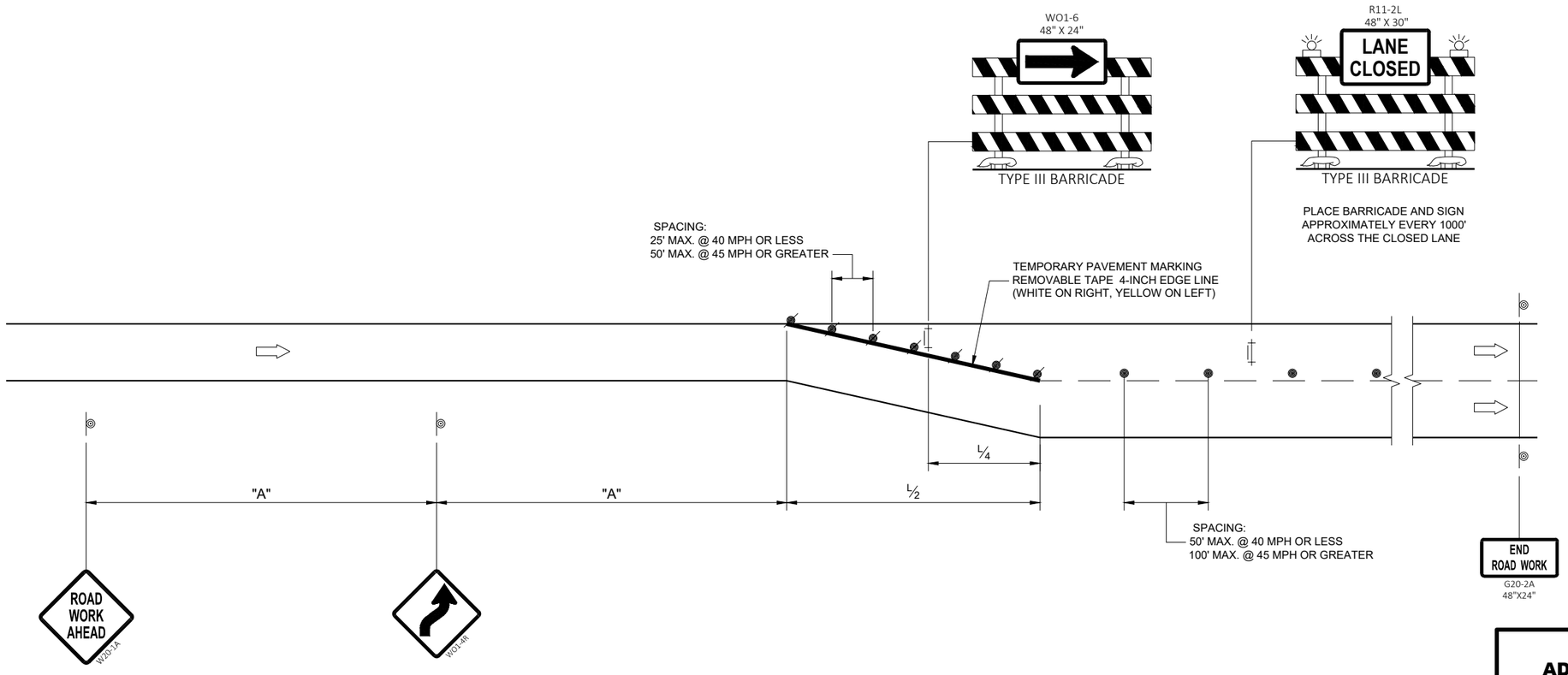
ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

W20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION WORK IS LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS.

PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR FOUR CONTINUOUS DAYS AND NIGHTS.



ADDED LANE CLOSURE WITH LANE SHIFT

February 2021
ADDED LANE CLOSURE WITH LANE SHIFT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

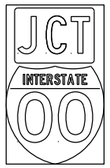
APPROVED
00-00-00
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

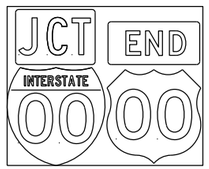
FHWA

6
SDD15D50 - 01b

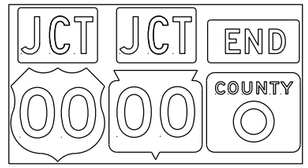
TYPICAL ASSEMBLIES



J1-1



J1-2



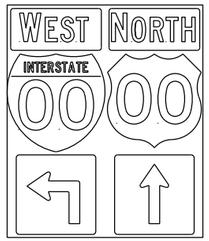
J1-3



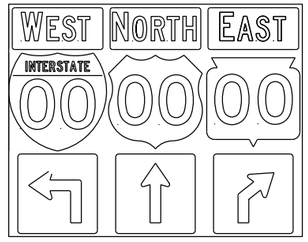
JR1-1



J2-1



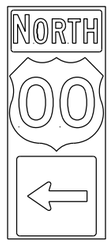
J2-2



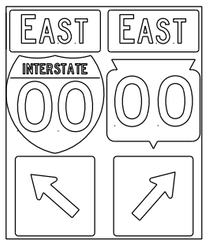
J2-3



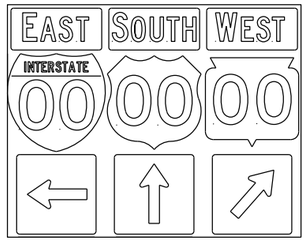
JV
(Typical Vertical J-Assembly
See Note 10 and 11)



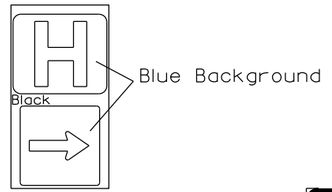
J3-1



J3-2



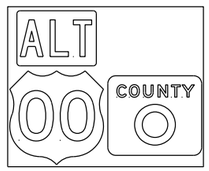
J3-3



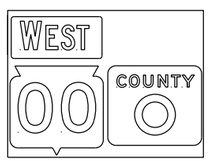
JH-1



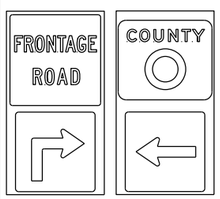
J4-1



J4-2



J4-2



J12-1

J13-1



J32-1



J33-1



J22-1



J23-1



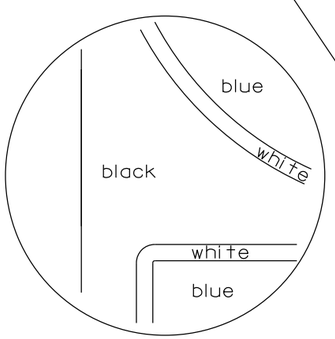
JR13-1

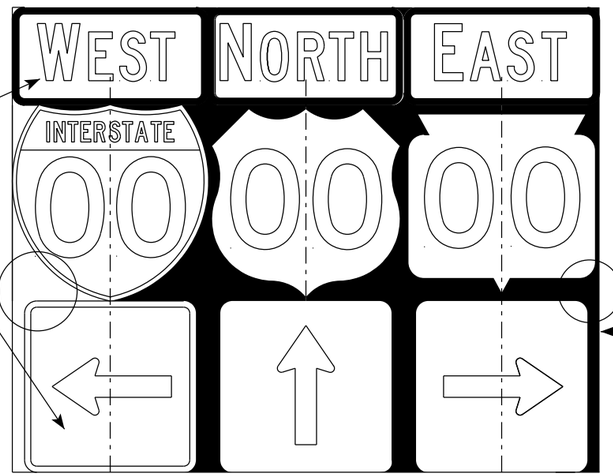


JR23-1



JR99-1





NOTES

1. Signs are Type II - Type H Reflective
2. Color:
   Background - Black Non-reflective
   Message - see Note 5
3. Message Series - See Note 5
4. Corners shall be square or rounded if base material is plywood. If base material is metal the corners shall be rounded.
5. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
6. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 Interstate marker shall be blue.
7. Single panel j-assemblies shall only be used with route marker shields that are same size. If the route marker shields are different size use multiple piece component.
8. Route assemblies that have 24 inch route shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
9. Route assemblies that have 36 inch shields and have dimensions greater than 48 inchs (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
10. All Vertical J Assemblies are given a Sign Code of JV
11. For JV Assemblies that have a mixture of Interstate and non Interstate shields, arrows and cardinals shall be white on blue.

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

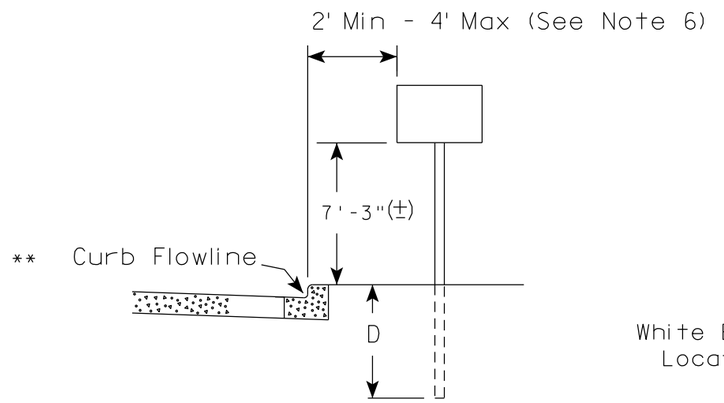
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/21 PLATE NO. A2-1S.9

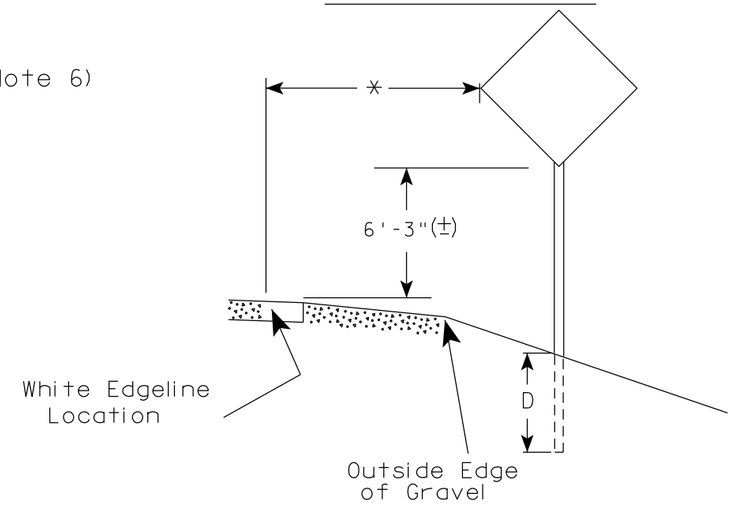
PROJECT NO:

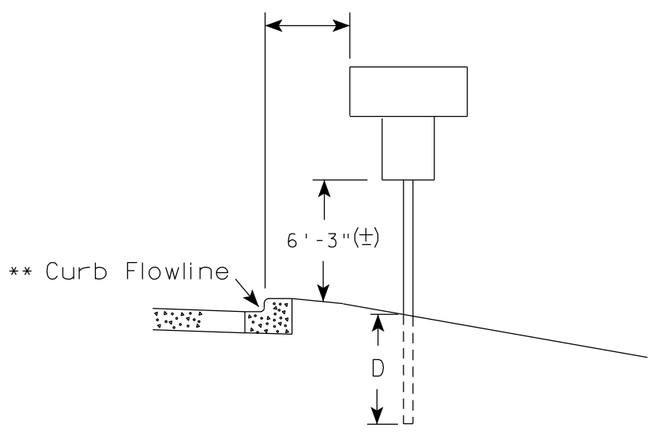
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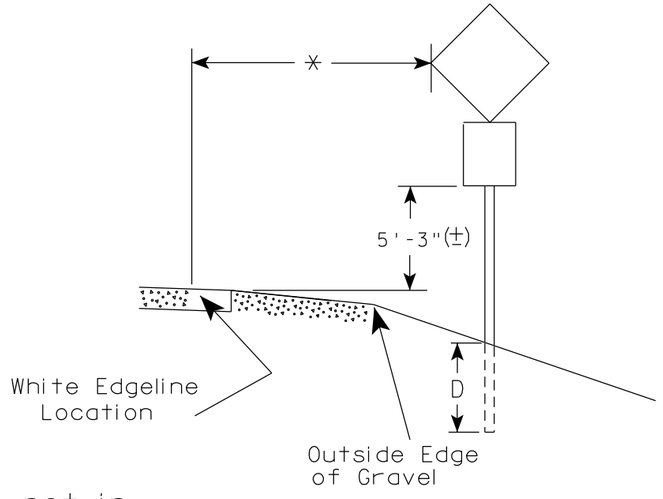
URBAN AREA



RURAL AREA (See Note 2)







** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq.Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on or behind barrier wall, see A4-10 sign plate.
   The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
6. The (±) tolerance for mounting height is 3 inches.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directd by the Engineer.

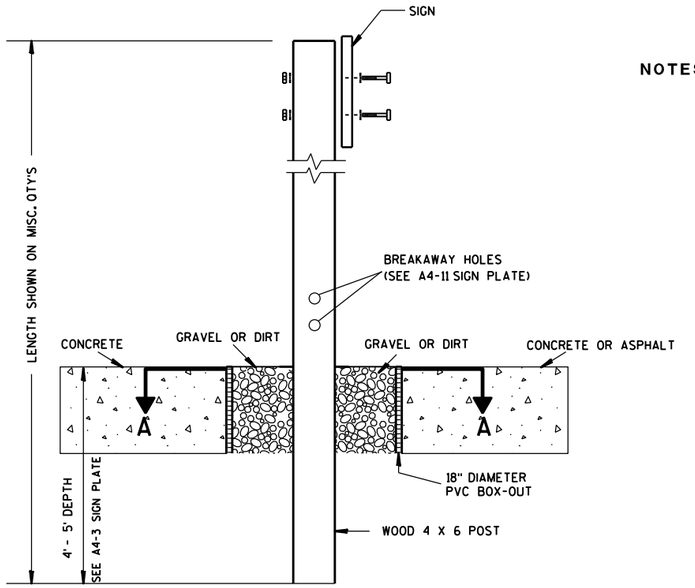
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/13/2020 PLATE NO. A4-3.22

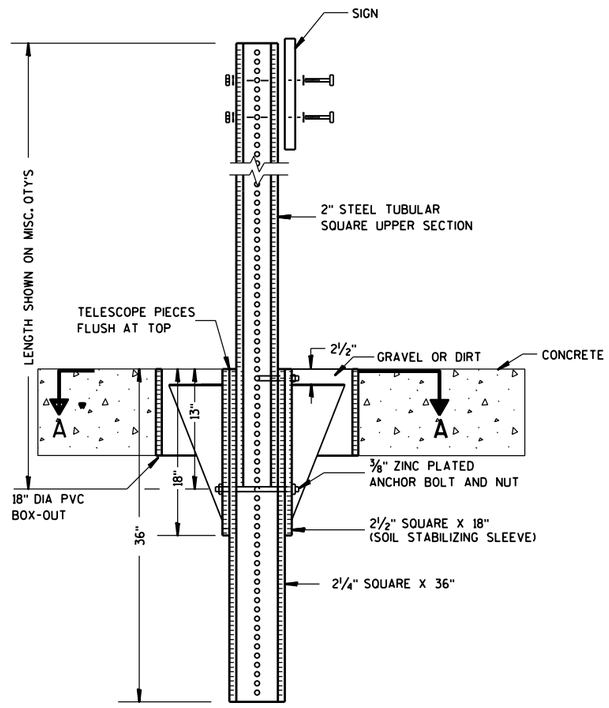
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 1041	E



ELEVATION VIEW

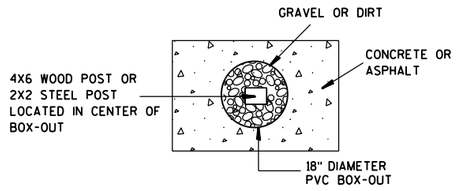
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

NOTES:
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

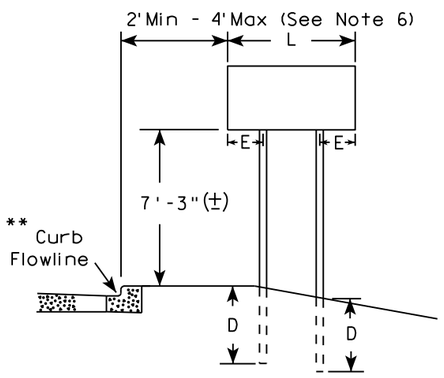
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

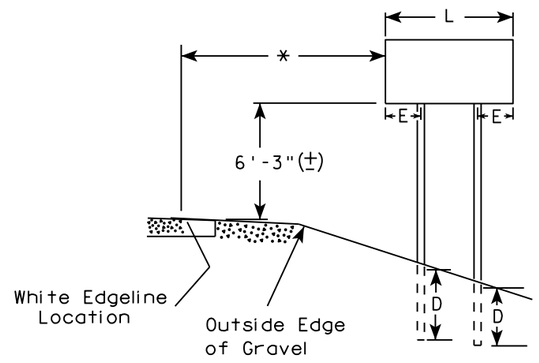
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

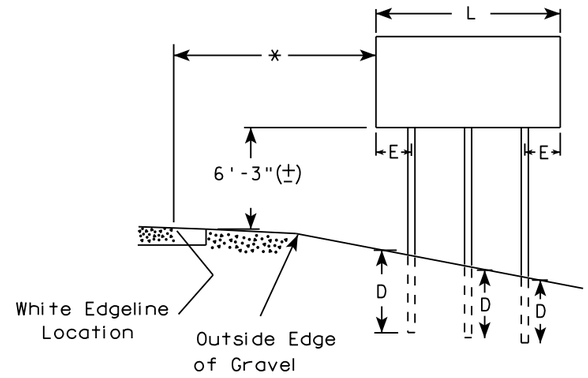
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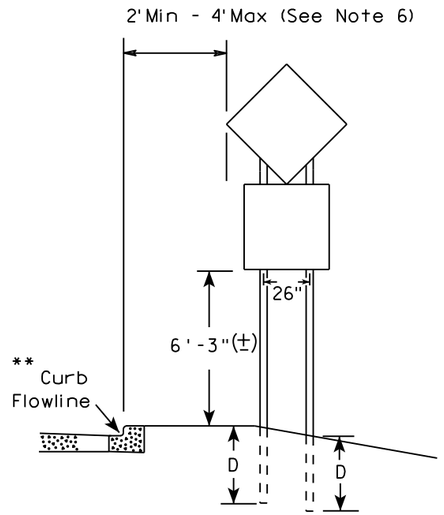
URBAN AREA



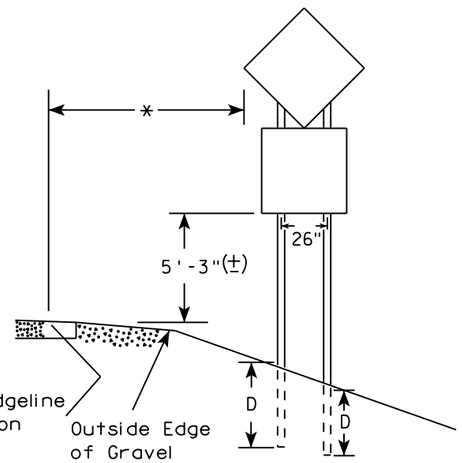
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)		
	L	E
***	Greater than 48" Less than 60"	12"
	60" to 108"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 108" to 144"	12"

GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. J-Assemblies are considered to be one sign for mounting height.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

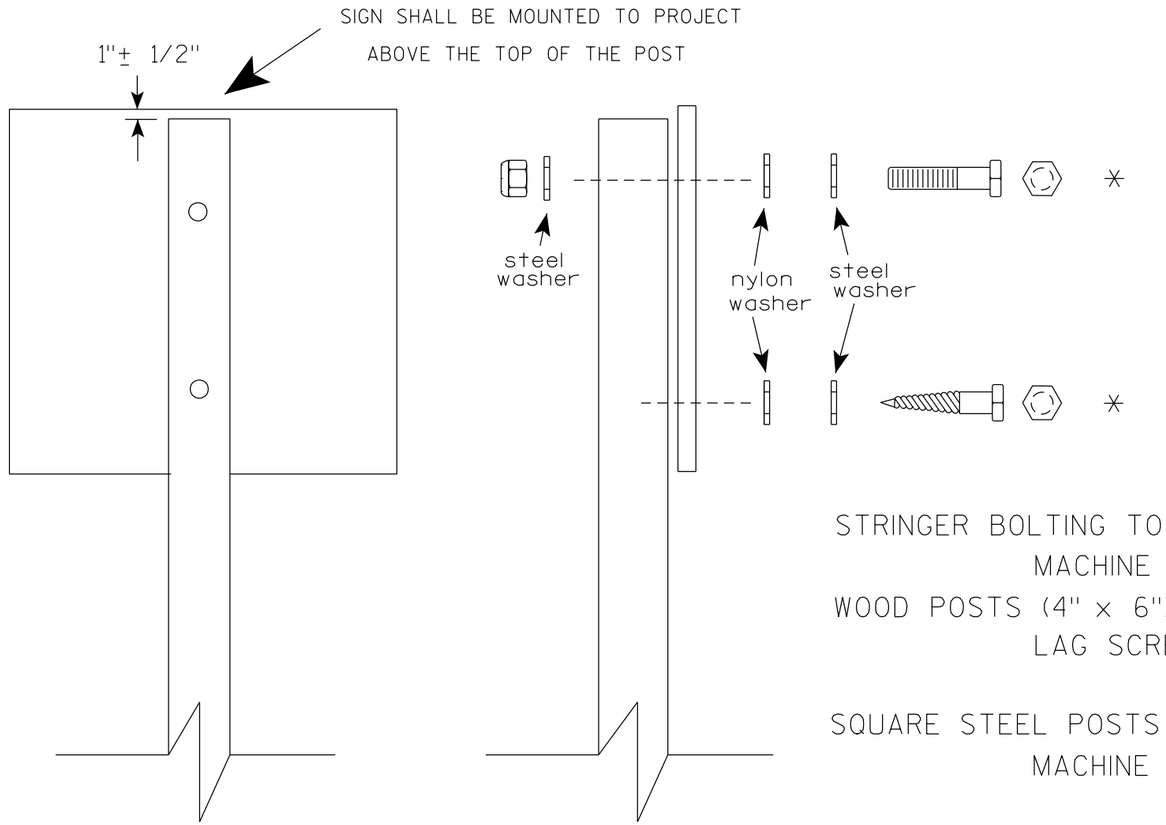
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-4.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 1043	E



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3

b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts

WOOD POSTS (4" x 6")

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

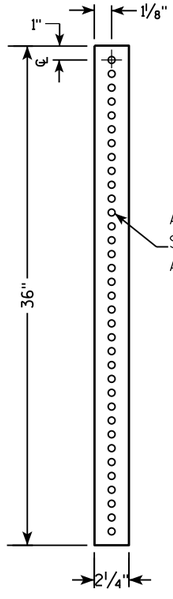
DATE 4/1/2020 PLATE NO. A4-8.9

PROJECT NO:

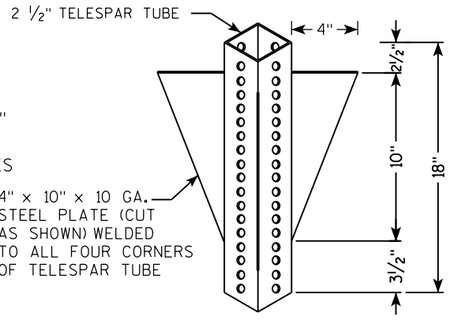
SHEET NO: 1044 E

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

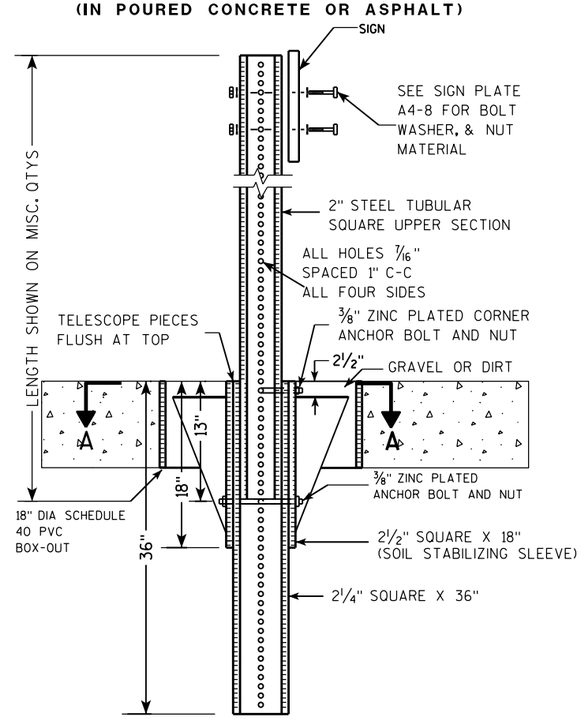
2 ¼ " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



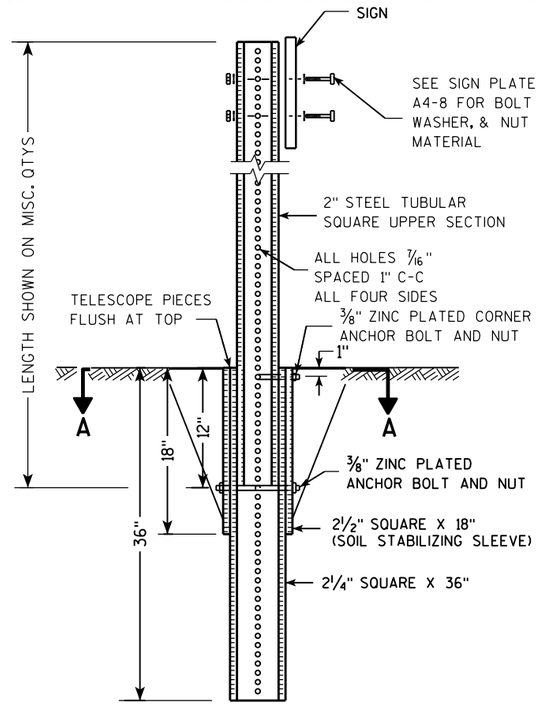
2 ½ " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

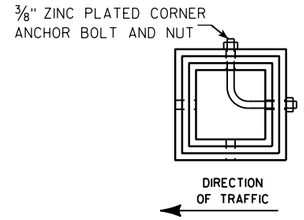


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

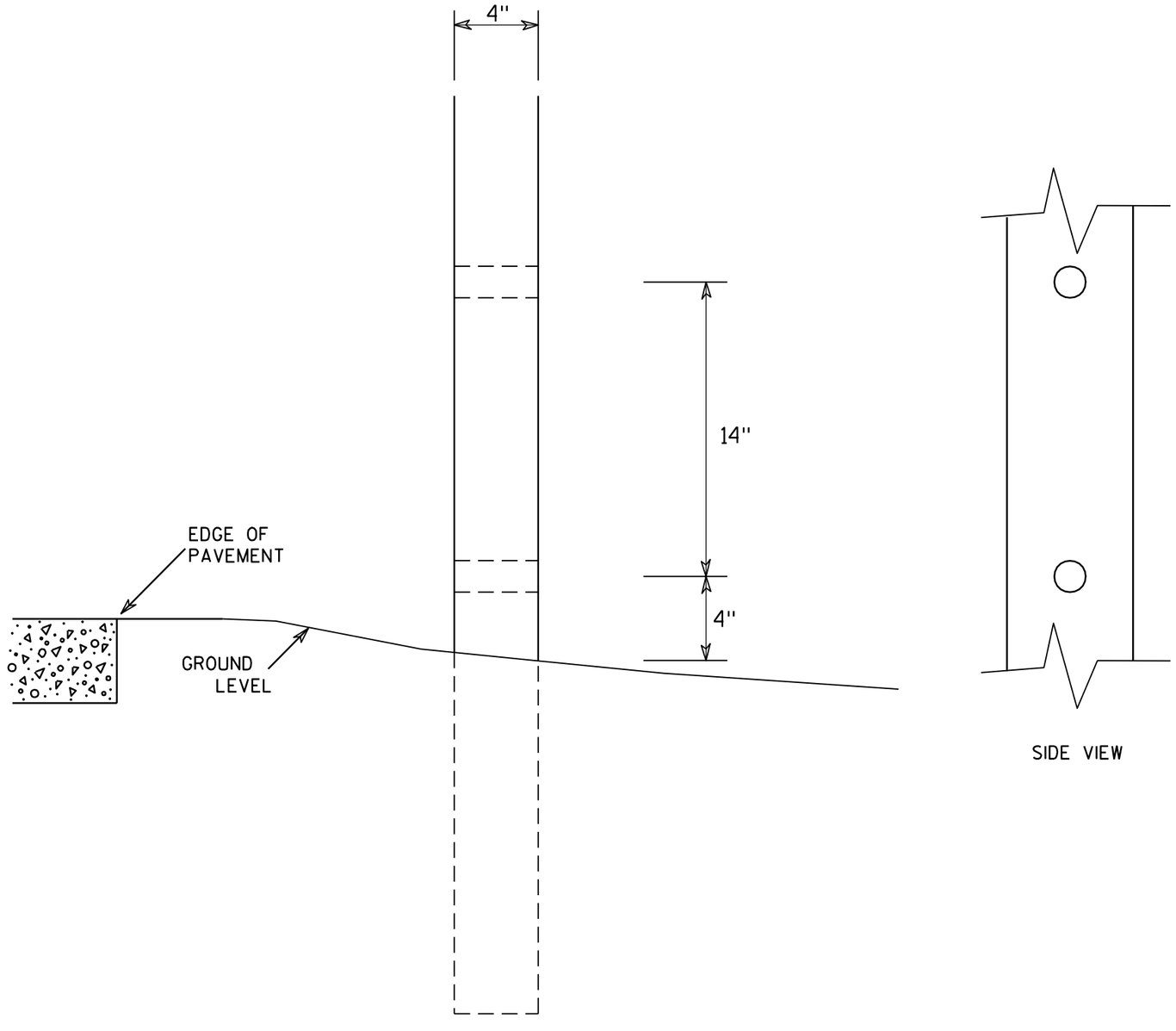
TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 1045 A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

7

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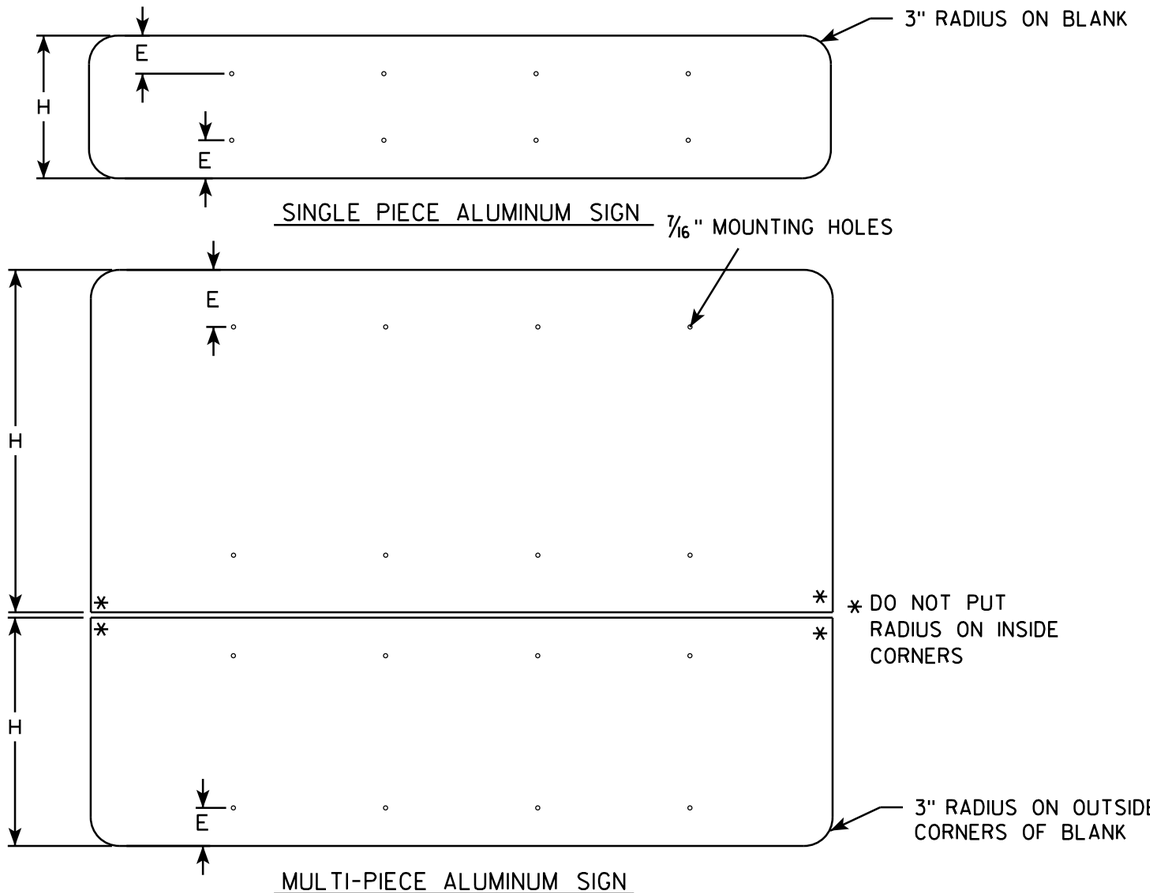
4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang
for State Traffic Engineer

DATE 3/27/97 PLATE NO. A4-11.2

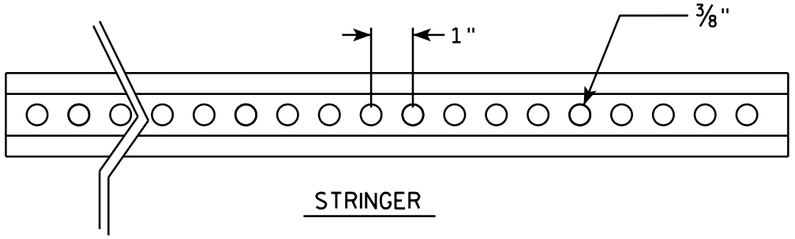
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 1046	E



GENERAL NOTES

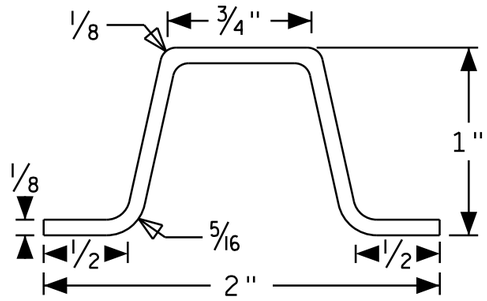
- ALL SIGNS OVER 60" IN WIDTH SHALL HAVE A 3" RADIUS ON THE OUTSIDE CORNERS OF THE ALUMINUM BLANK.
- MOUNTING HOLES SHALL BE 7/16" DIAMETER.
- SEE CHART FOR HOLE SPACING REQUIREMENTS
- FOR SIGN PANELS WITH DIMENSION (H) 36" AND OVER, DIMENSION E SHALL BE 6"
- FOR SIGN PANELS WITH DIMENSION (H) UNDER 36", DIMENSION E SHALL BE 4"
- SIGN STRINGER MATERIAL SHALL CONSIST OF STEEL CHANNEL POST SECTIONS, WEIGHING 1.12 LBS/FT IN ACCORDANCE WITH SECTION 633.2.1 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.
- SEE SIGN PLATE A4-8 FOR SIGN STRINGER BOLTING REQUIREMENTS.

SIGN WIDTH	STRINGER WIDTH	POSTS	HOLE SPACING	MOUNTING HOLES
78"	72"	2	16"	15" 31" 47" 63"
84"	72"	2	17"	16½" 33½" 50½" 67½"
90"	72"	2	18"	18" 36" 54" 72"
96"	90"	2	19"	19½" 38½" 57½" 76½"
102"	90"	2	20"	21" 41" 61" 81"
108"	90"	2	21"	22½" 43½" 64½" 85½"
114"	108"	3	15"	12" 27" 42" 57" 72" 87" 102"
120"	108"	3	16"	12" 28" 44" 60" 76" 92" 108"
126"	108"	3	17"	12" 29" 46" 63" 80" 97" 114"
132"	126"	3	18"	12" 30" 48" 66" 84" 102" 120"
138"	126"	3	19"	12" 31" 50" 69" 88" 107" 126"
144"	126"	3	20"	12" 32" 52" 72" 92" 112" 132"

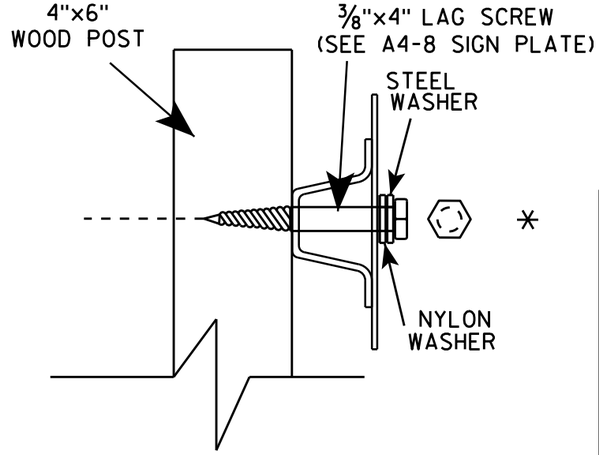


STRINGER

CROSS SECTION VIEW OF CHANNEL



POST MOUNTING



SIGN STRINGER MOUNTING REQUIREMENTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

for State Traffic Engineer

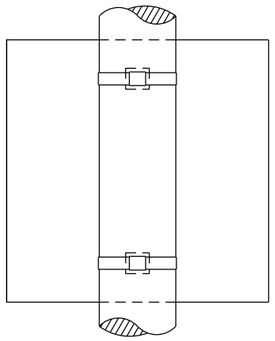
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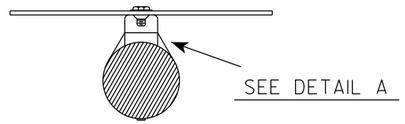
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

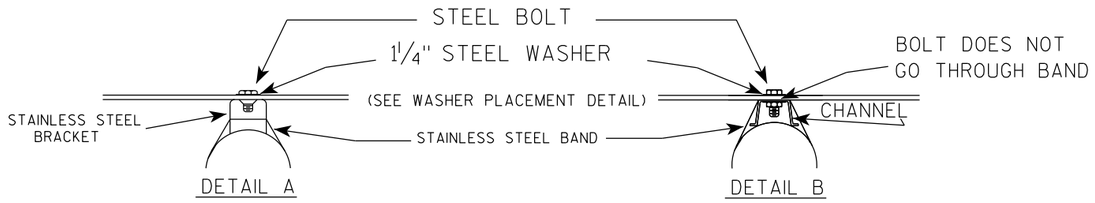
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BANDING

SINGLE SIGN



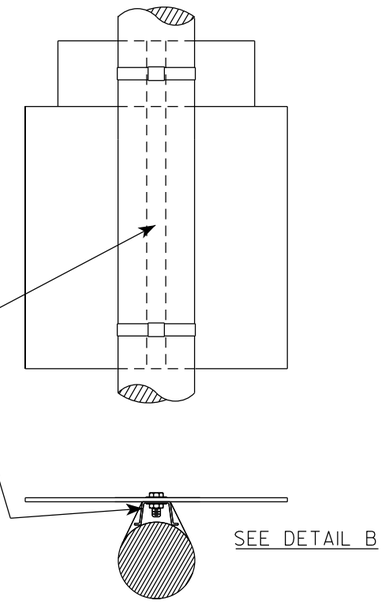




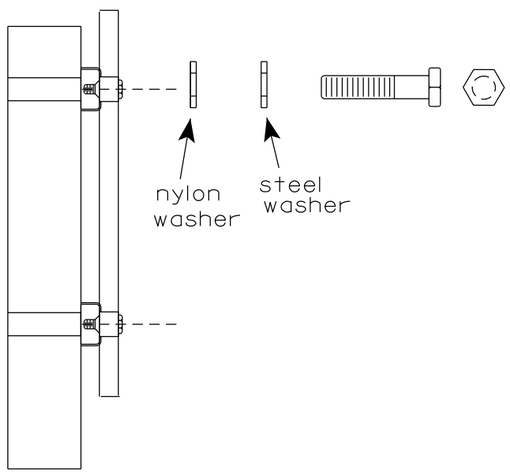
GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be ¾" in width and 0.025" thickness.
4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

"J" ASSEMBLY



WASHER PLACEMENT



WASHERS (ALL POSTS) -
1-1/4" O.D. X ⅜" I.D. X 1/16" STEEL
1-1/4" O.D. X ⅜" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

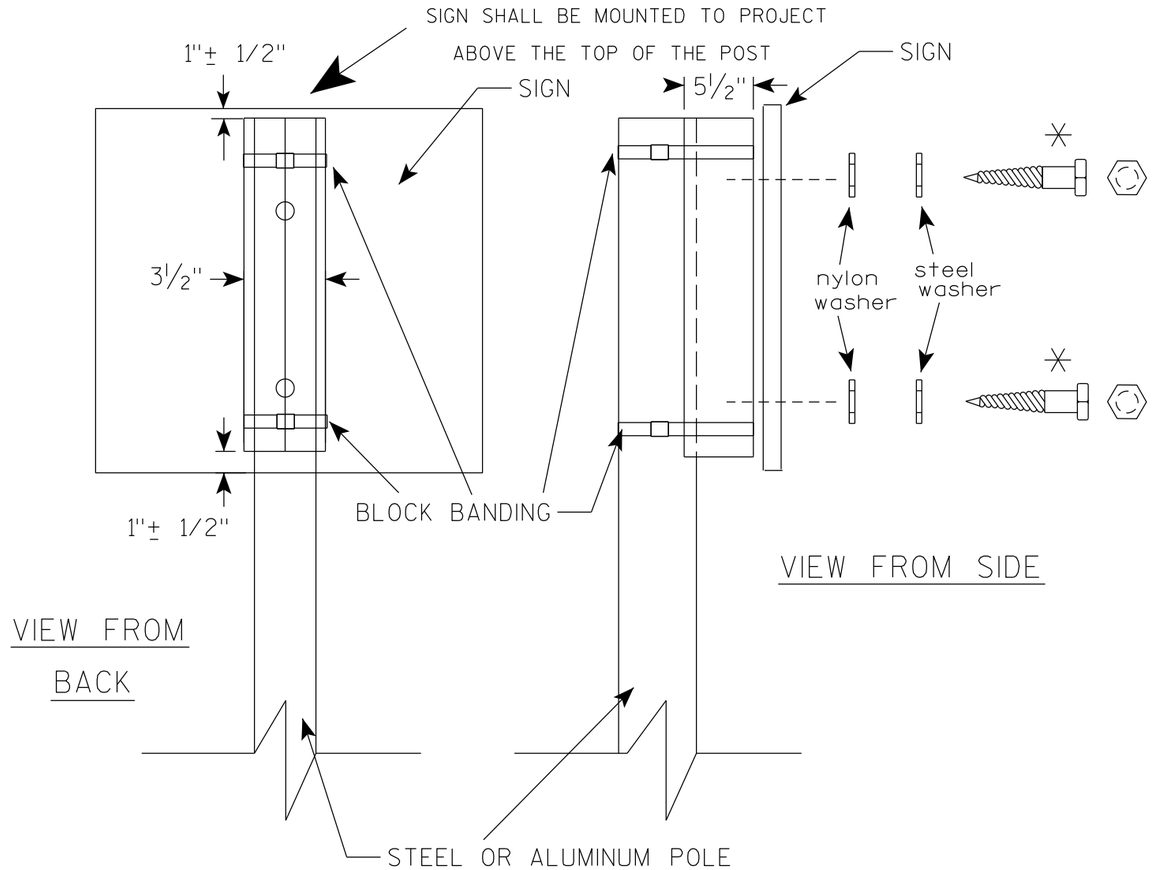
DATE 6/10/19 PLATE NO. A5-9.4

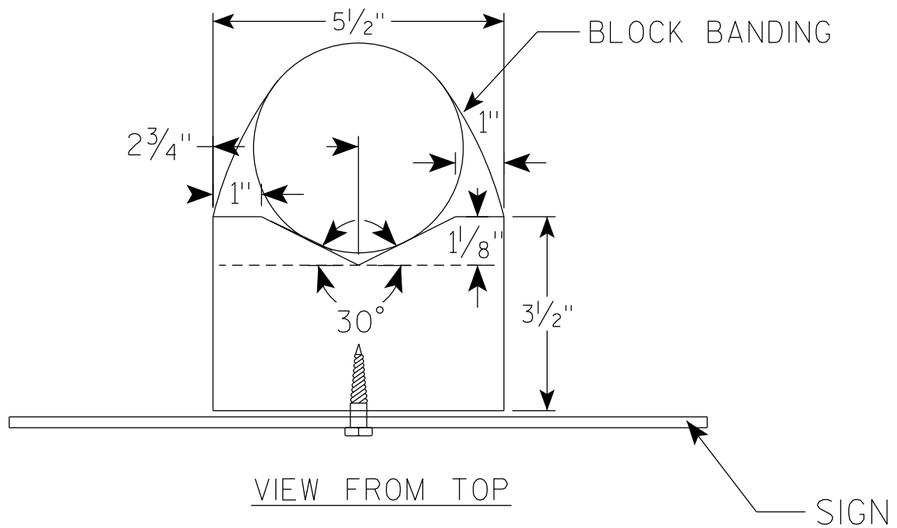
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7

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GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, ¾" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE ⅜" X 2½"

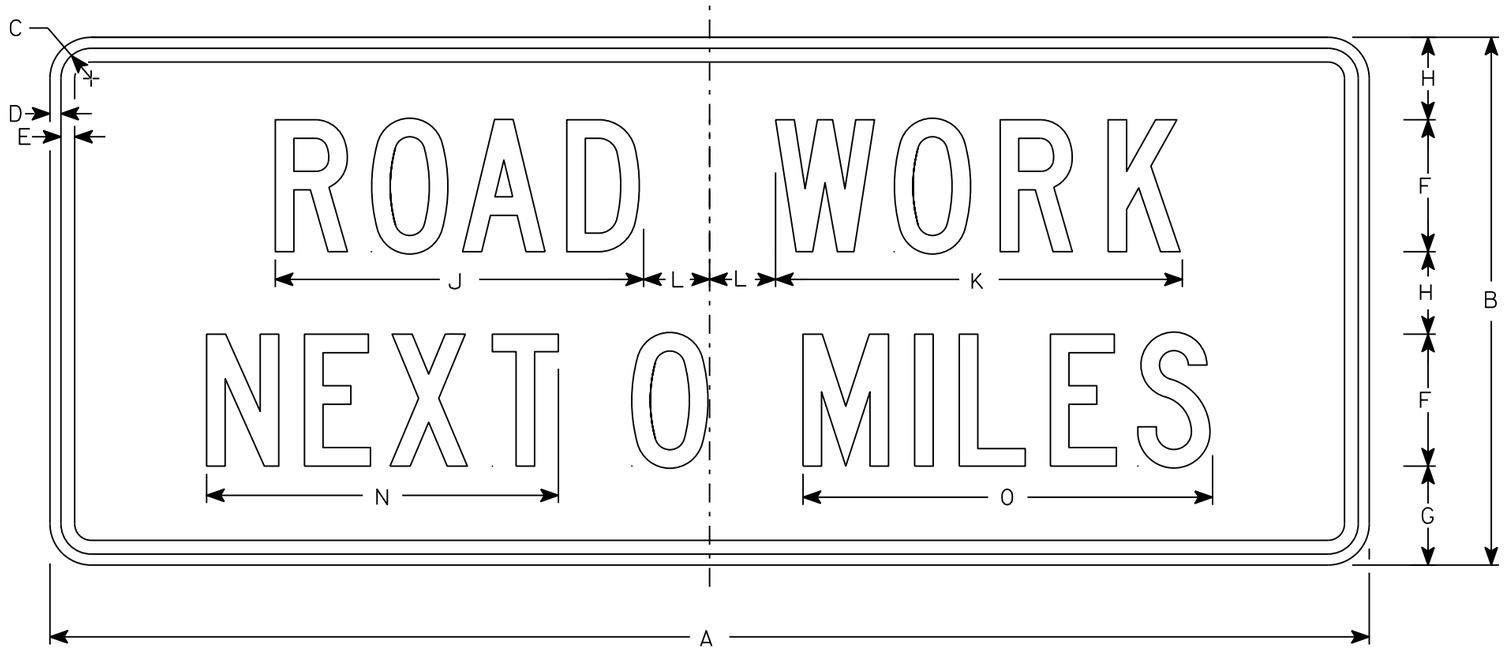
BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 6/10/19 PLATE NO. A5-10.2

PROJECT NO:				SHEET NO: 1049	E



G20-1

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Round distance to nearest whole Mile and substitute appropriate numerals and optically adjust spacing to achieve proper balance

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	60	24	1 3/8	1/2	5/8	6	4 1/2	3 3/4		16 3/4	18 1/2	3		16	18 5/8												10
3																											
4	60	24	1 3/8	1/2	5/8	6	4 1/2	3 3/4		16 3/4	18 1/2	3		16	18 5/8												10
5																											

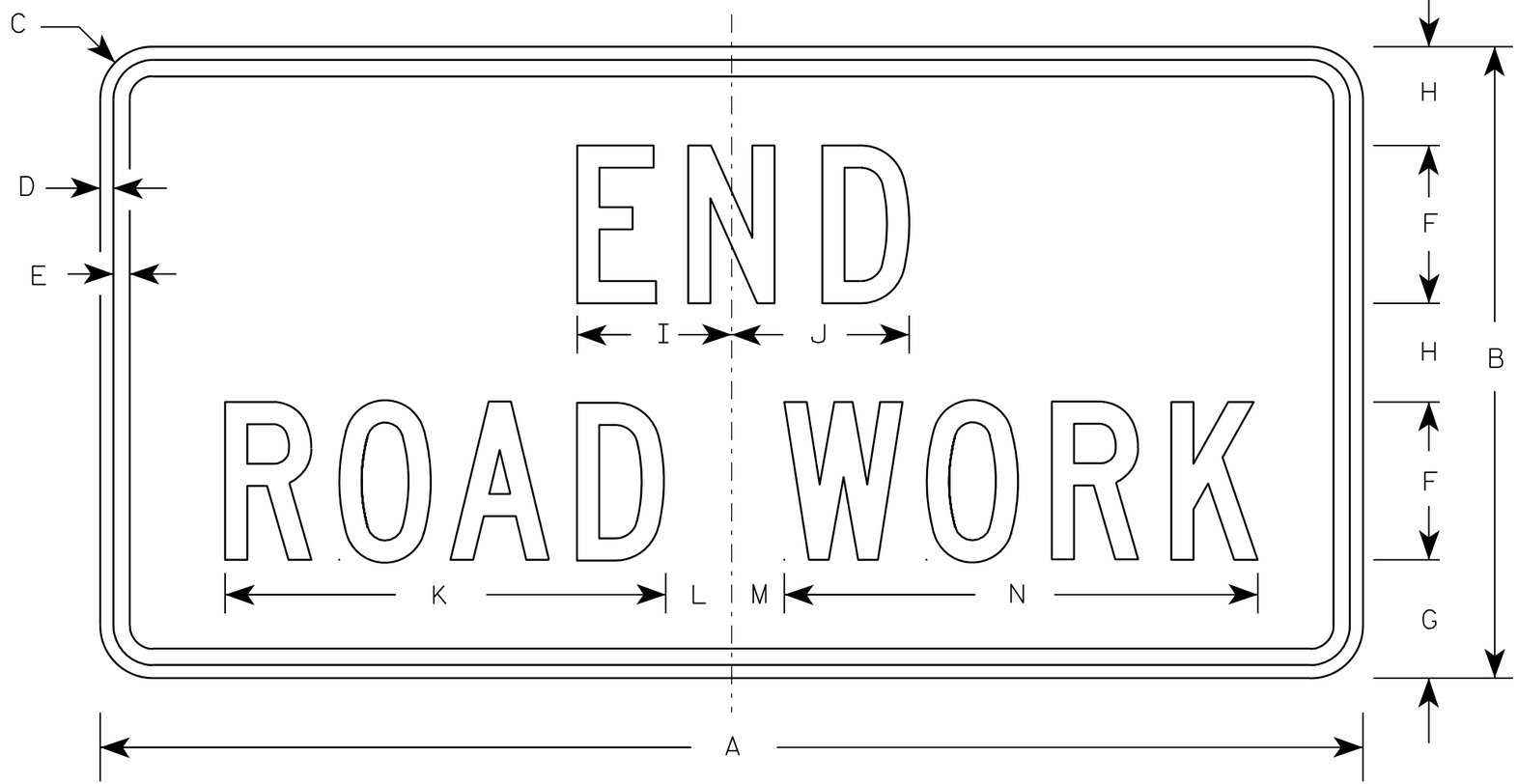
STANDARD SIGN
G20-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/14/17 PLATE NO. G20-1.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 1050	E



G20-2A

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

Metric equivalent for this sign is:

SIZE	
1	900 mm X 450 mm
2	1200 mm X 600 mm
3	1200 mm X 600 mm
4	1200 mm X 600 mm
5	1200 mm X 600 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1	36	18	1 1/8	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5	0.41
2	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72

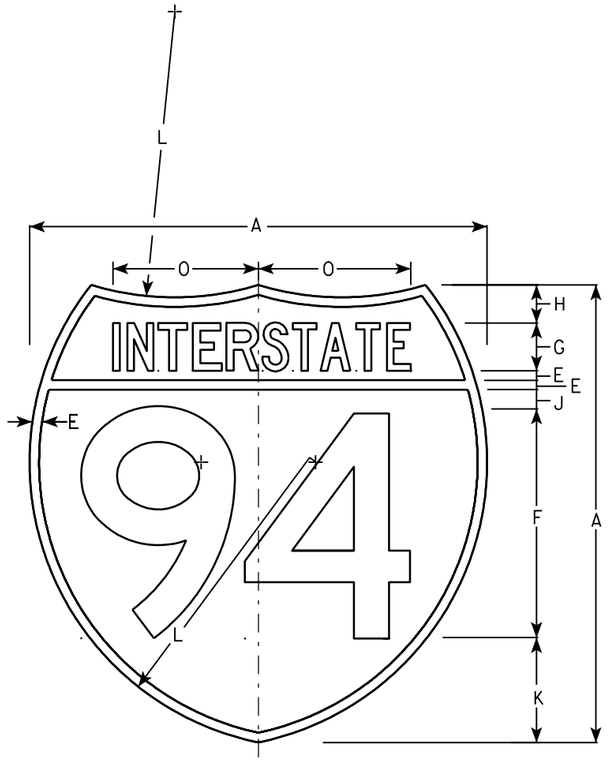
STANDARD SIGN
G20-2A

WISCONSIN DEPT OF TRANSPORTATION

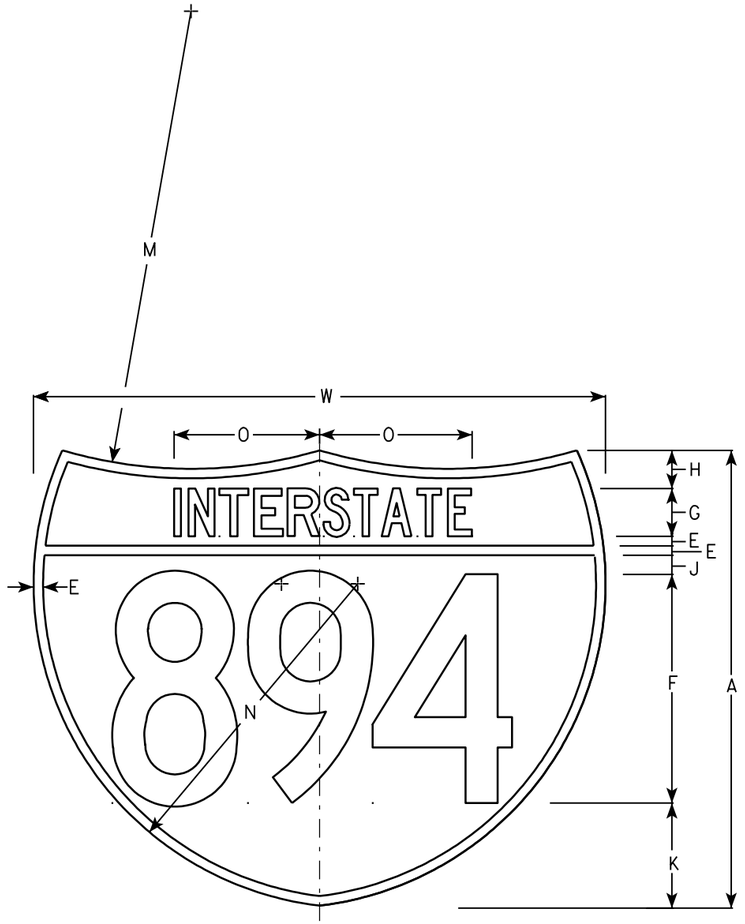
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/30/09 PLATE NO. G20-2A.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 1051	E



M1-1



M1-1A

NOTES

1. Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Top Red - Bottom Blue (See Note 6)
   Message - White - See Note 6
3. Message Series - See note 5
4. Substitute appropriate numerals & ajust spacing as per plate A10-1.
5. M1-1 - Numerals - D
   Interstate - C
   M1-1A - All copy - C
6. Permanent Signs
   Message - Type H Reflective
   Detour or other temporary signs
   Background - Reflective
   Message - Reflective

Metric equivalent for these signs are:

SIZE	M1-1	SIZE	M1-1A
1			
2	600 mm X 600 mm	2	600 mm X 750 mm
3	900 mm X 900 mm	3	900 mm X 1125 mm
4	900 mm X 900 mm	4	900 mm X 1125 mm
5	900 mm X 900 mm	5	900 mm X 1125 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	M1-1 Area sq. ft.	M1-1A Area sq. ft.	M1-1 Area m2	M1-1A Area m2
1																													
2	24				1/2	12	2 1/2	2		1	5 1/2	15	24	17	7 7/8								30			3.13	3.91	.36	.46
3	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05
4	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05
5	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05

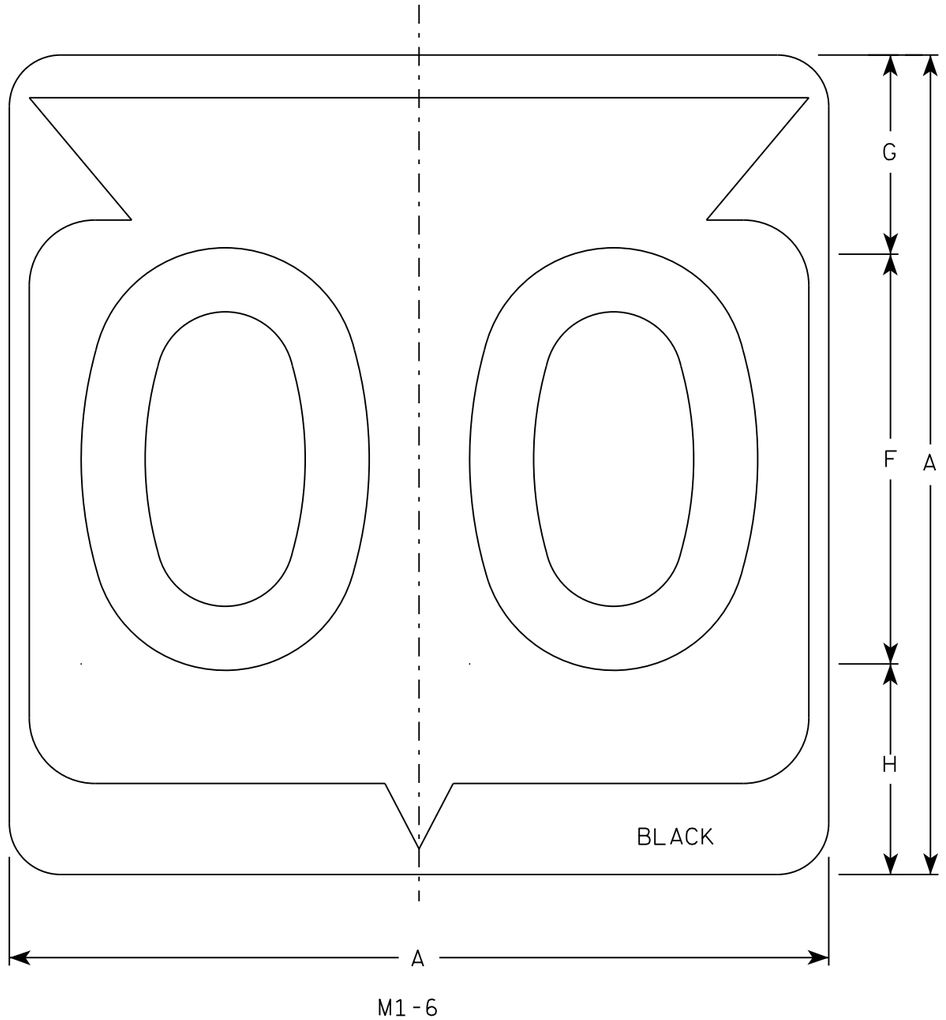
INTERSTATE ROUTE MARKER
M1-1 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 08/23/05 PLATE NO. M1-1.8

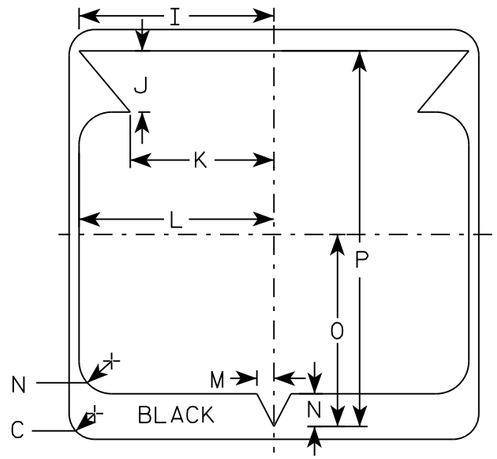
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 1052	E



M1-6

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D except 3 number signs Series C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0

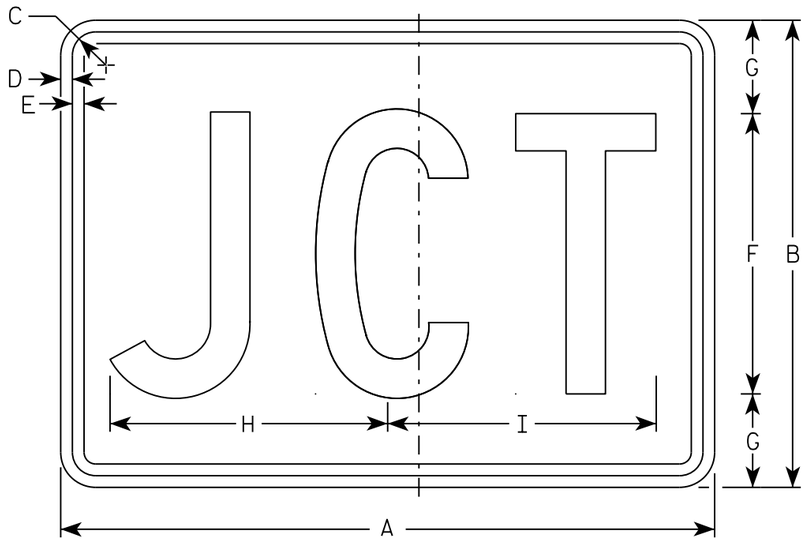
STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

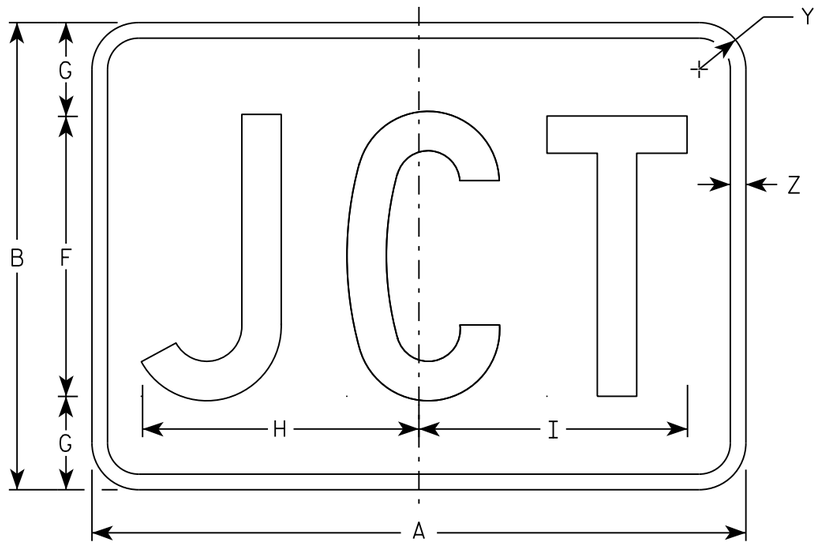
APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/16/18 PLATE NO. M1-6.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 1053	E



M2-1
MM2-1
MP2-1



MB2-1
MK2-1
MN2-1
MR2-1

NOTES

1. Sign is Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M2-1 Background - White
   Message - Black
   MB2-1 Background - Blue
   Message - White
   MK2-1 Background - Green
   Message - White
   MM2-1 Background - White
   Message - Green
   MN2-1 Background - Brown
   Message - White
   MP2-1 Background - White
   Message - Blue
   MR2-1 Background - Brown
   Message - Yellow

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21	15	1 1/8	3/8	3/8	9	3	8 7/8	8 5/8																1 1/2	1/2	2.20
3	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
4	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
5	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40

STANDARD SIGN
M2-1

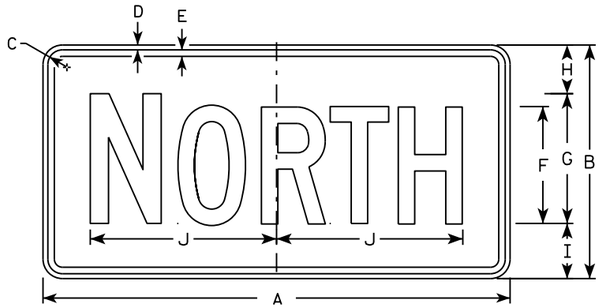
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

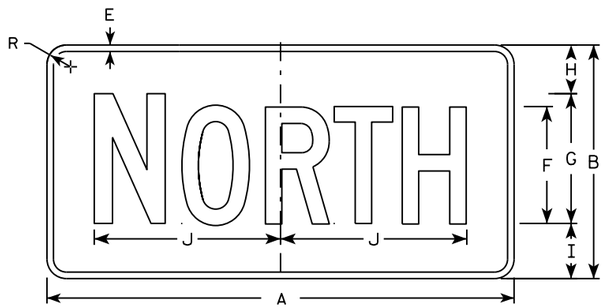
DATE 10/15/15 PLATE 1054 12-1.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M21.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 4.864603:1.000000



M3-1
MM3-1
MP3-1



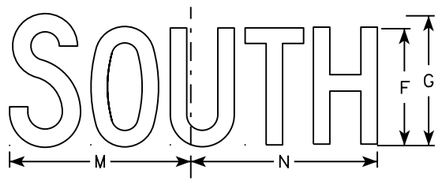
MB3-1
MK3-1
MN3-1



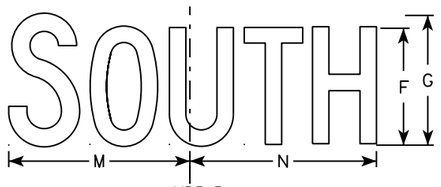
M3-2
MM3-2
MP3-2



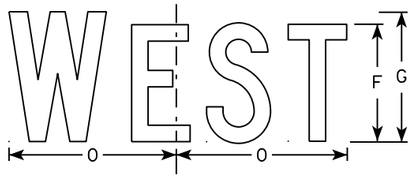
MB3-2
MK3-2
MN3-2



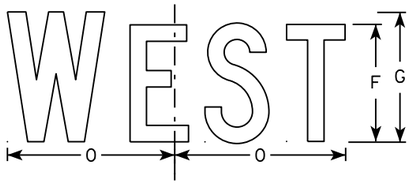
M3-3
MM3-3
MP3-3



MB3-3
MK3-3
MN3-3



M3-4
MM3-4
MP3-4



MB3-4
MK3-4
MN3-4

NOTES

1. All Signs Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M3-1 thru M3-4 Background - White
   Message - Black
   MB3-1 thru MB3-4 Background - Blue
   Message - White
   MK3-1 thru MK3-4 Background - Green
   Message - White
   MM3-1 thru MM3-4 Background - White
   Message - Green
   MN3-1 thru MN3-4 Background - Brown
   Message - White
   MP3-1 thru MP3-4 Background - White
   Message - Blue
6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

STANDARD SIGNS
M3-1 thur M3-4
SERIES

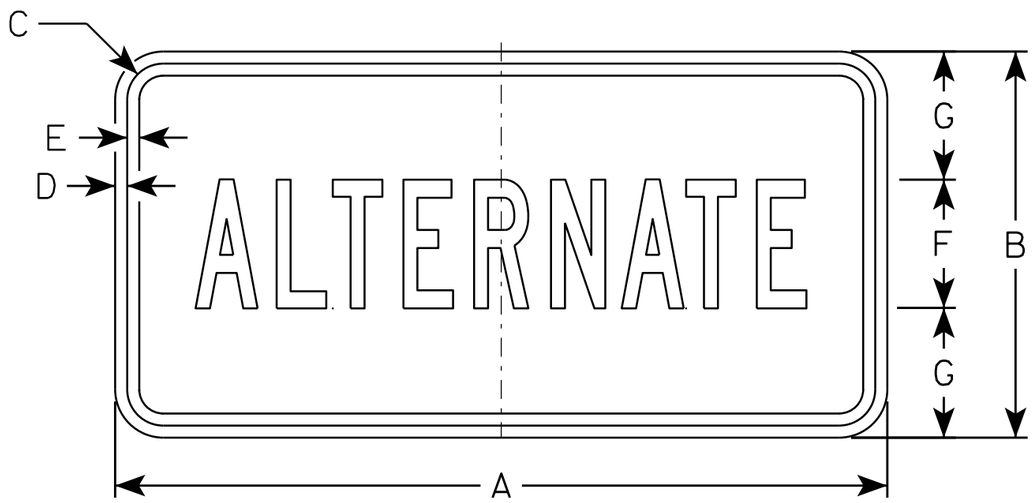
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew P Rauch for State Traffic Engineer

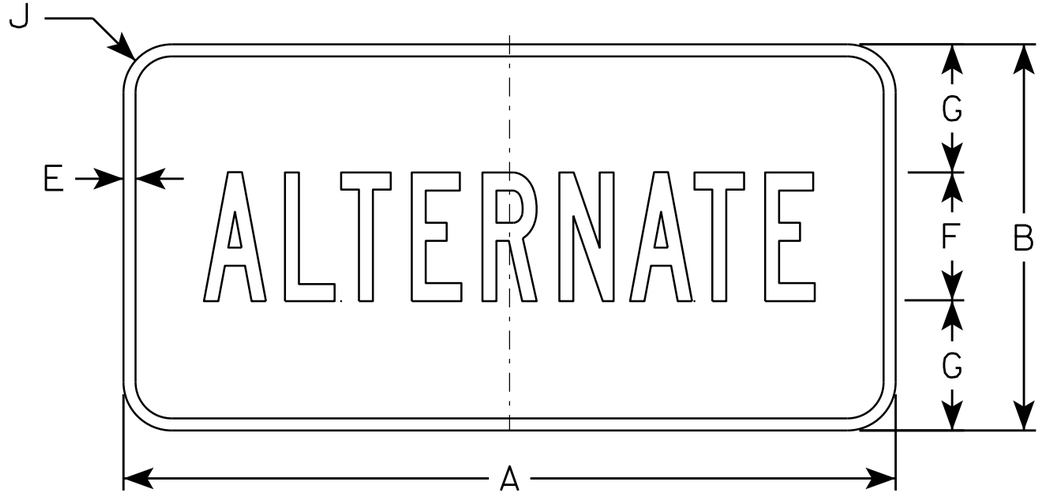
DATE 10/15/15 PLATE NO. M3-1.14

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M31.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



M4-1
MO4-1



MB4-1

NOTES

1. Sign is Type II - Type H except as Shown
2. Color:
   Background - See Note 5
   Message - See note 5
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M4-1 Background - White
   Message - Black

   MB4-1 Background - Blue
   Message - White

   MO4-1 Background - Orange - Type F
   Message - Black

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	4	4	9 3/4	9 1/2	1 1/2																	2.00
3	36	18	1 1/8	3/8	1/2	7	5 1/2	16 3/8	16 1/2	1 1/2																	4.5
4	36	18	1 1/8	3/8	1/2	7	5 1/2	16 3/8	16 1/2	1 1/2																	4.5
5	36	18	1 1/8	3/8	1/2	7	5 1/2	16 3/8	16 1/2	1 1/2																	4.5

STANDARD SIGN
M4-1

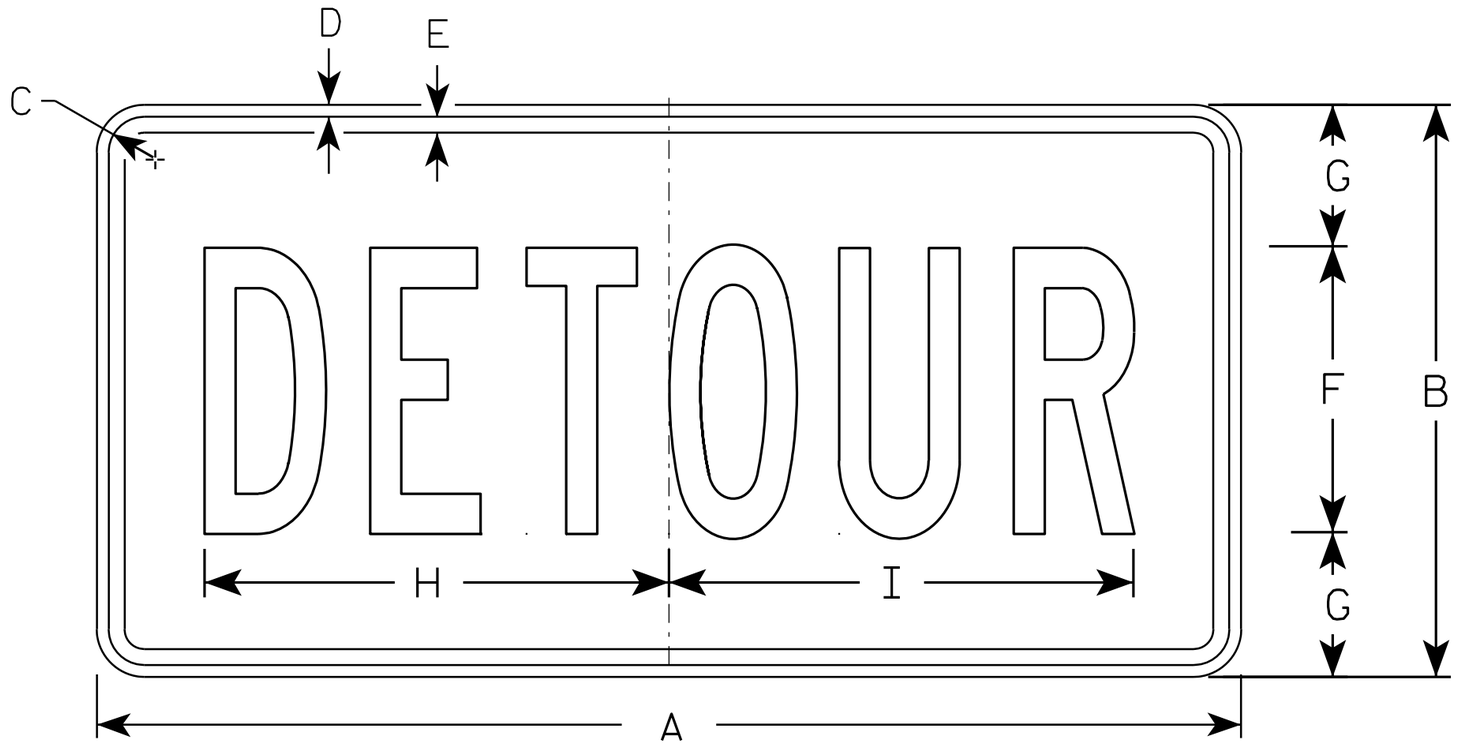
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/30/14 PLATE 14-1.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\M41.DGN PLOT DATE : 30-JUN-2014 15:38 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 4.708937:1.000000
WISDOT/CADDS SHEET 42



M4-8

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	3	10	10 1/4																		2.0
3	36	18	1 1/8	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
4																											
5																											

STANDARD SIGN
M4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/10/10 PLATE NO. M4-8.2

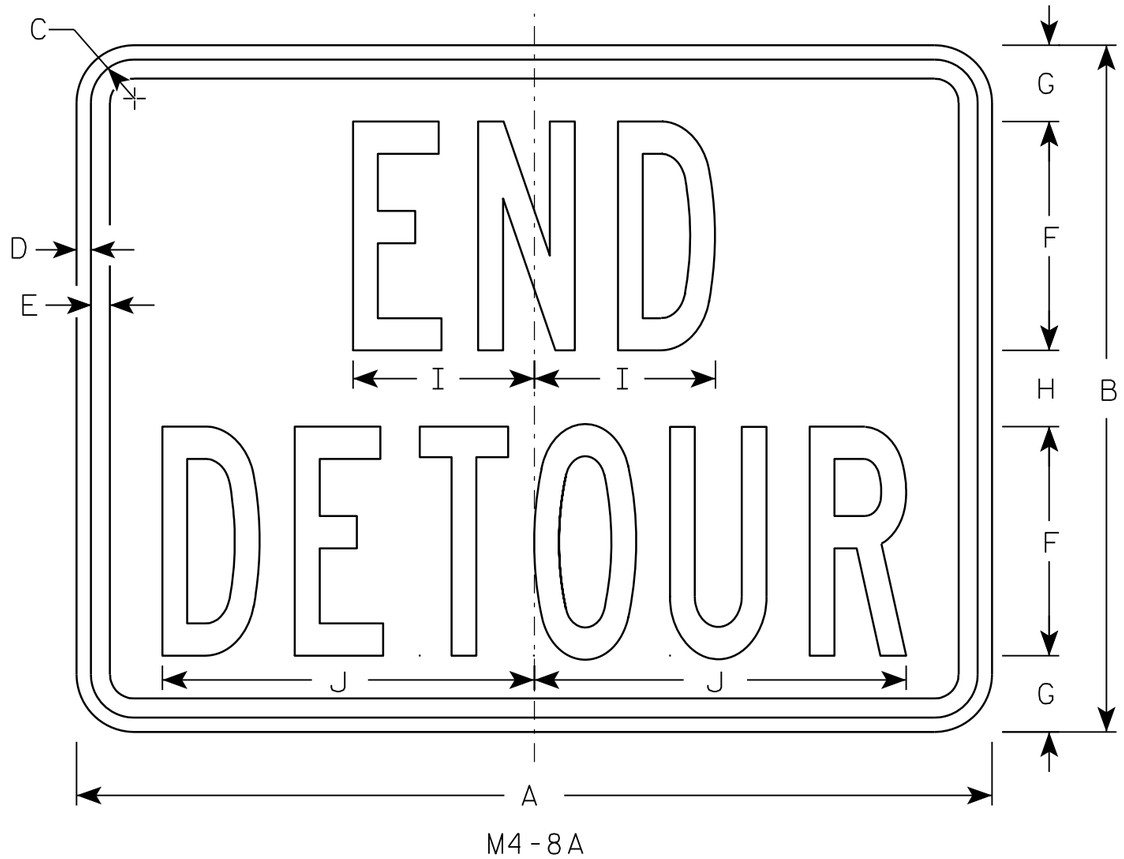
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 1057	E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\M48.DGN PLOT DATE : 10-NOV-2010 13:18 PLOT BY : ditjph PLOT NAME : PLOT SCALE : 4.767233:1.000000

WISDOT/CADDS SHEET 42

7

7



M4-8A

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	18	1 1/8	3/8	1/2	6	2	2	4 3/4	9 3/4																	3.0
3	30	24	1 1/8	3/8	1/2	8	2 1/2	3	6 3/4	13																	5.0
4																											
5																											

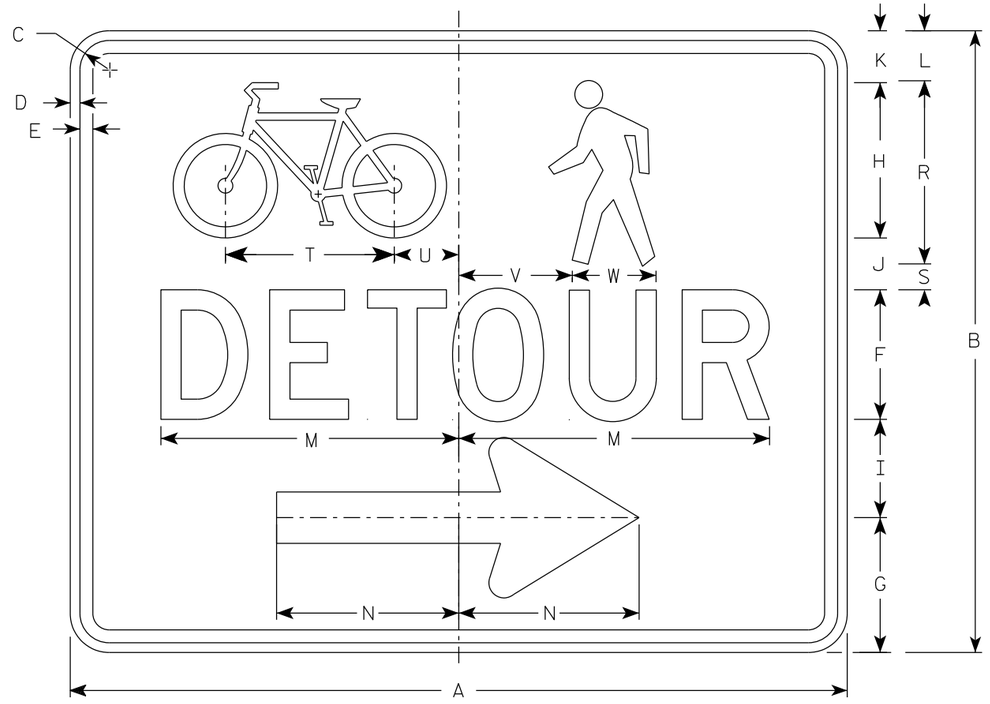
STANDARD SIGN
M4-8A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/9/11 PLATE NO. M4-8A.2

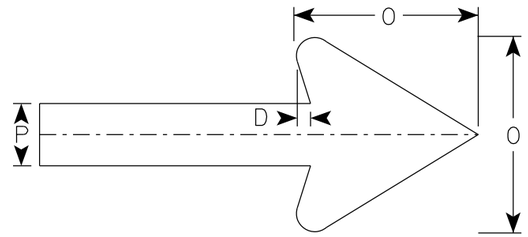
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 1058	E



M4-9AR

NOTES

1. Sign is Type II-Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M4-9AL is the same as M4-9AR except the arrow is reversed.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	30	24	1 1/8	3/8	1/2	5	5 1/4	6	3 3/4	2	2	1 7/8	11 3/4	7	6	2		7 1/8	1	6 1/2	2 1/2	4 3/8	3 1/4				5.00
3																											
4																											
5																											

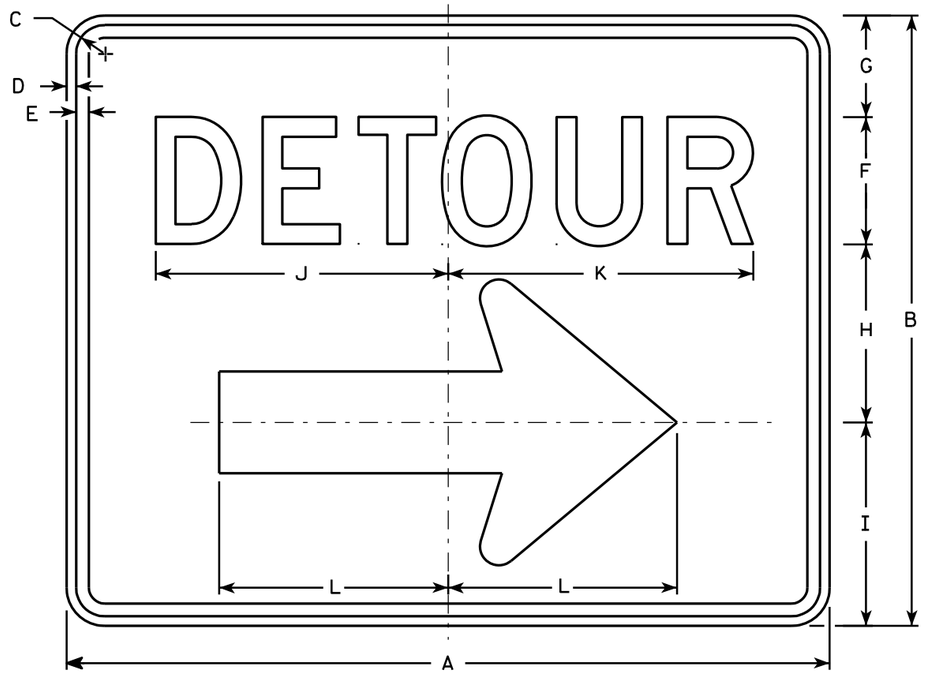
STANDARD SIGN
M4-9A L&R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/2/19 PLATE NO. M4-9A.1

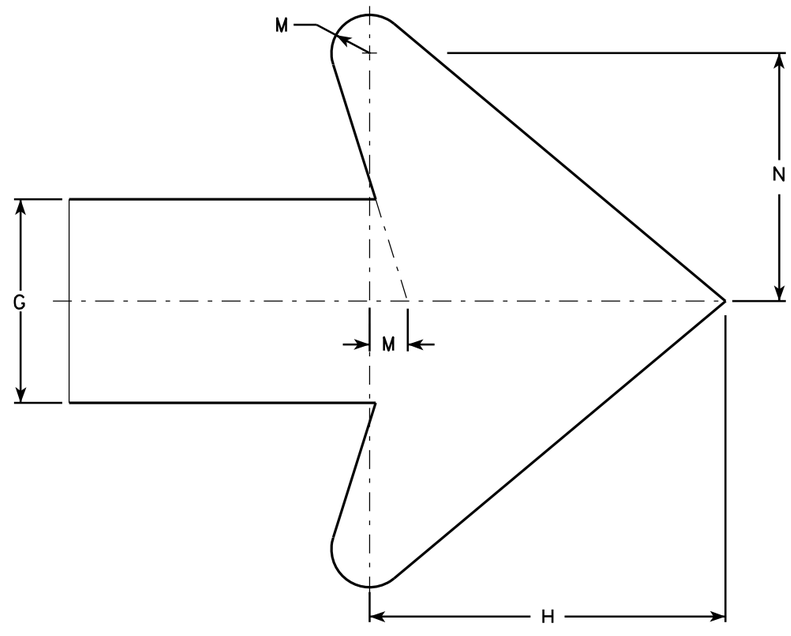
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 1059 | E



M4-9R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M4-9L is the same as M4-9R except the arrow is reversed.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	30	24	1 1/8	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
3	30	24	1 1/8	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
4	48	36	1 3/8	1/2	5/8	8	6	10 1/2	11 5/8	20 5/8	20 1/2	13 1/4	1 1/8	6 7/8													12.0
5	48	36	1 3/8	1/2	5/8	8	6	10 1/2	11 5/8	20 5/8	20 1/2	13 1/4	1 1/8	6 7/8													12.0

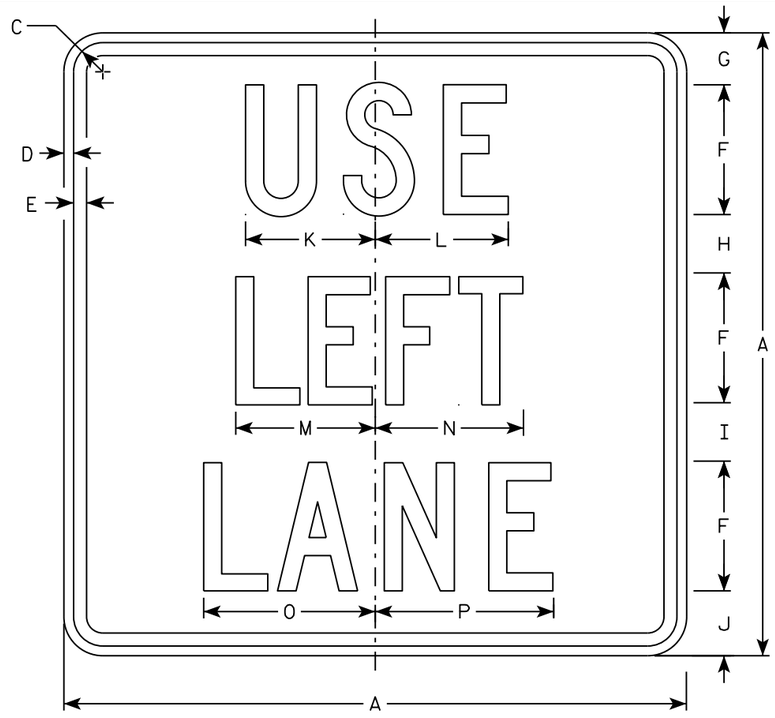
STANDARD SIGN
M4-9 R & L

WISCONSIN DEPT OF TRANSPORTATION

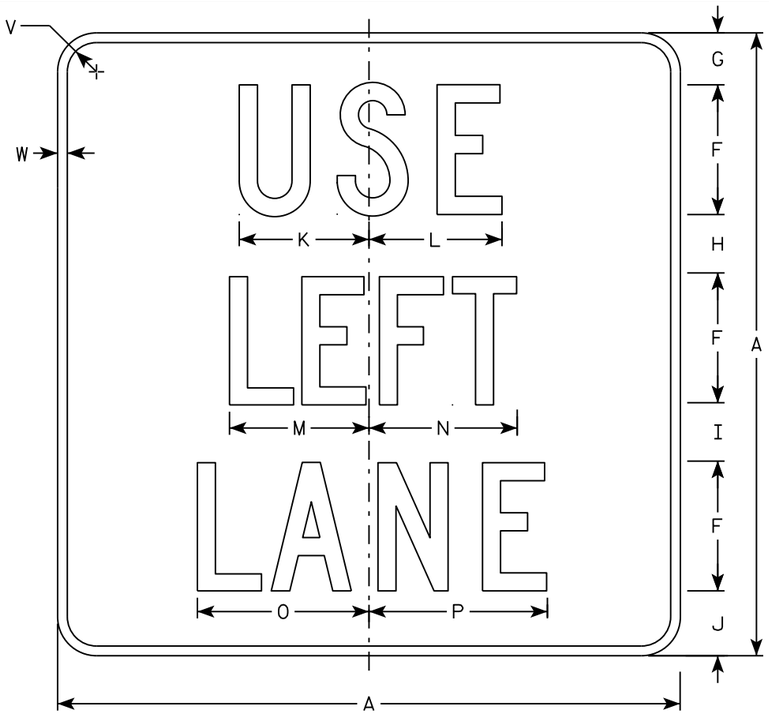
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/9/11 PLATE NO. M4-9R.4

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 1060 | E



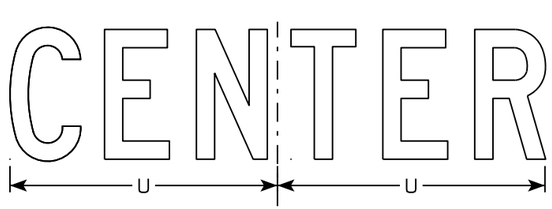
M4-20L



MB4-20L

M4-20L
MM4-20L
M04-20L
MP4-20L

MB4-20L
MK4-20L
MN4-20L
MR4-20L



M4-20C
MB4-20C
MK4-20C
MM4-20C
MN4-20C
M04-20C
MP4-20C
MR4-20C



M4-20R
MB4-20R
MK4-20R
MM4-20R
MN4-20R
M04-20R
MP4-20R
MR4-20R

NOTES

1. Sign is Type II - Type H except as Shown
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M4-20 Background - White
   Message - Black
   MB4-20 Background - Blue
   Message - White
   MK4-20 Background - Green
   Message - White
   MM4-20 Background - White
   Message - Green
   MN4-20 Background - Brown
   Message - White
   M04-20 Background - Orange - Type F Reflective
   Message - Black
   MP4-20 Background - White
   Message - Blue
   MR4-20 Background - Brown
   Message - Yellow

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/8	3/8	1/2	5	2	2 1/4	2 1/4	2 1/2	5	5 1/8	5 3/8	5 3/4	6 5/8	6 7/8			7	7 5/8	10 1/4	1 1/2	1/2				4.0
3	36		1 5/8	5/8	3/4	7	4	3	3 1/2	4 1/2	7 1/2	7 3/4	8	8 5/8	9 7/8	10 1/4			10 3/8	11 3/8	14 3/8	1 7/8	1/2				9.0
4																											
5																											

STANDARD SIGN
M4-20

WISCONSIN DEPT OF TRANSPORTATION

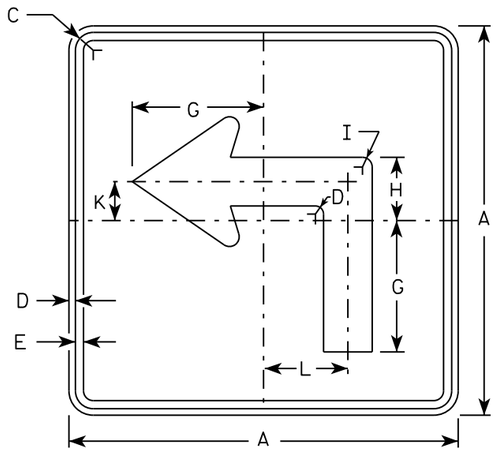
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 10/15/15 PLATE NO M4-20.5

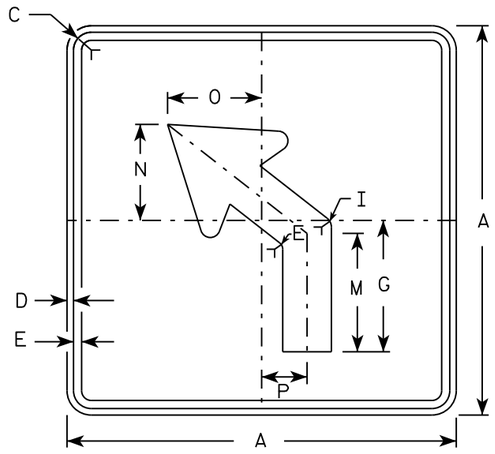
1061

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

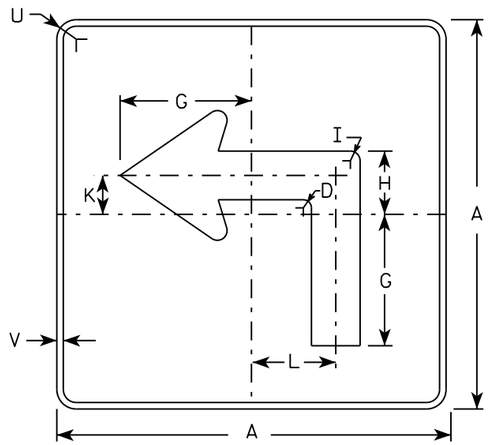
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M420.DGN PLOT DATE : 01-DEC-2015 18:03 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 5.837526:1.000000



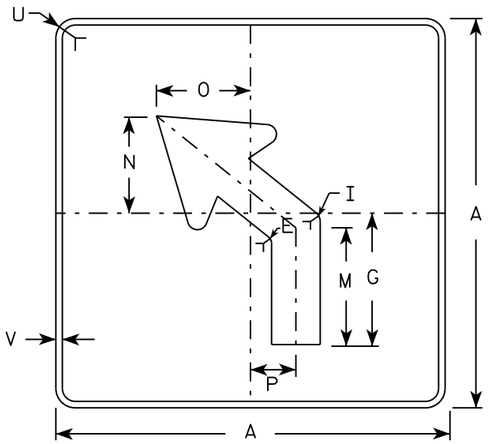
M5-1L
MM5-1L
MO5-1L
MP5-1L



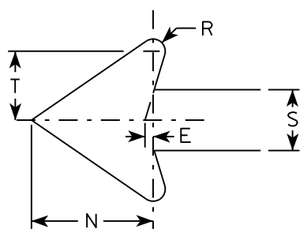
M5-2L
MM5-2L
MO5-2L
MP5-2L



MB5-1L
MK5-1L
MN5-1L
MR5-1L



MB5-2L
MK5-2L
MN5-2L
MR5-2L



NOTES

1. Signs are Type II - Type H reflective except as shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M5-1 and M5-2 Background - White
   Message - Black
   MB5-1 and MB5-2 Background - Blue
   Message - White
   MK5-1 and MK5-2 Background - Green
   Message - White
   MM5-1 and MM5-2 Background - White
   Message - Green
   MN5-1 and MN5-2 Background - Brown
   Message - White
   MO5-1 and MO5-2 Background - Orange - Type F Reflective
   Message - Black
   MP5-1 and MP5-2 Background - White - Type H Reflective
   Message - Blue
   MR5-1 and MR5-2 Background - Brown
   Message - Yellow
5. M5-1R same as M5-1L except arrow points right.
6. M5-2R same as M5-2L except arrow tilts right.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3	1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25

STANDARD SIGN
M5-1 & M5-2

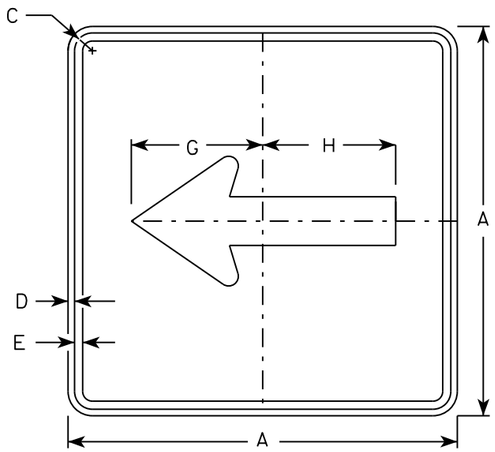
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

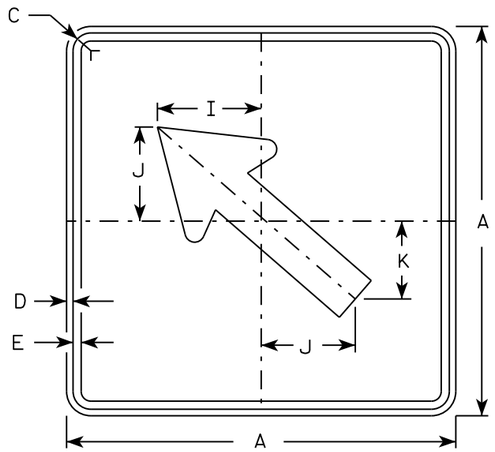
DATE 10/15/15 PLATE NO. M5-1.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M51.DGN PLOT DATE : 01-DEC-2015 18:07 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



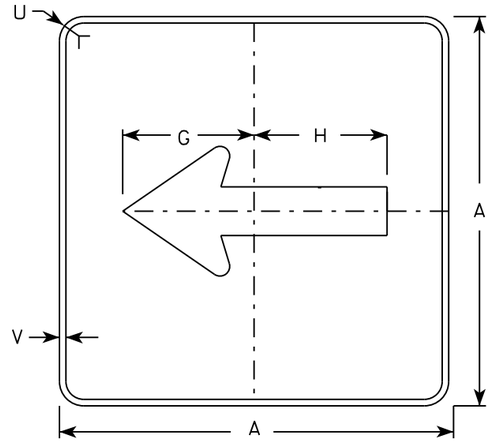
M6-1
MM6-1
MO6-1
MP6-1



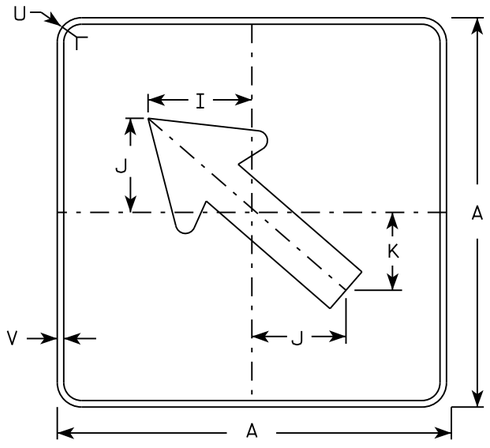
M6-2
MM6-2
MO6-2
MP6-2

NOTES

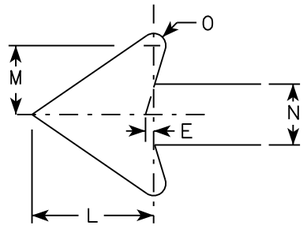
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - White
   Message - Black
   MB6-1 and MB6-2 Background - Blue
   Message - White
   MK6-1 and MK6-2 Background - Green
   Message - White
   MM6-1 and MM6-2 Background - White
   Message - Green
   MN6-1 and MN6-2 Background - Brown
   Message - White
   MO6-1 and MO6-2 Background - Orange - Type F Reflective
   Message - Black
   MP6-1 and MP6-2 Background - White
   Message - Blue
   MR6-1 and MR6-2 Background - Brown
   Message - Yellow



MB6-1
MK6-1
MN6-1
MR6-1



MB6-2
MK6-2
MN6-2
MR6-2



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2						1 1/2	1/2						3.06
3	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
4	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
5	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25

STANDARD SIGN
M6-1 & M6-2
SERIES

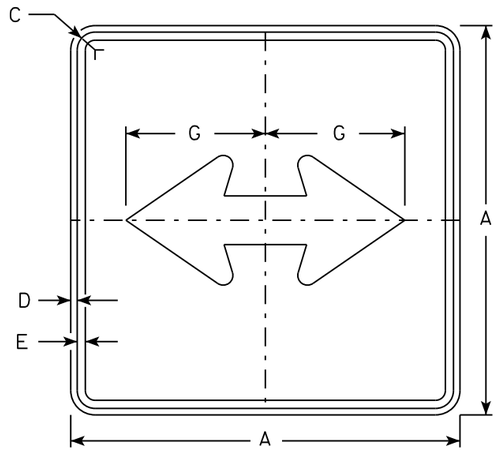
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

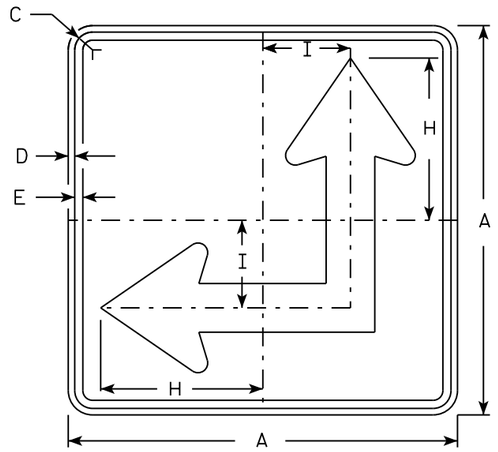
DATE 10/15/15 PLATE 1063 M6-1.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M61.DGN PLOT DATE : 01-DEC-2015 17:57 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



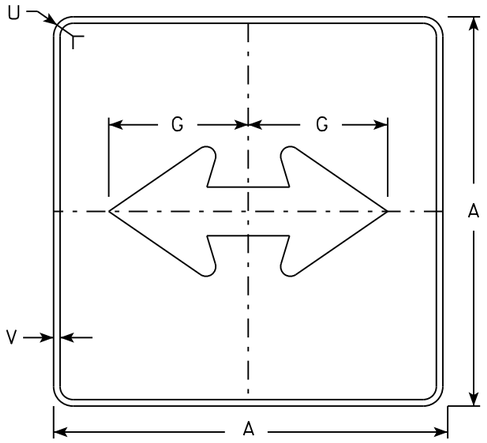
M6-4
MM6-4
MO6-4
MP6-4



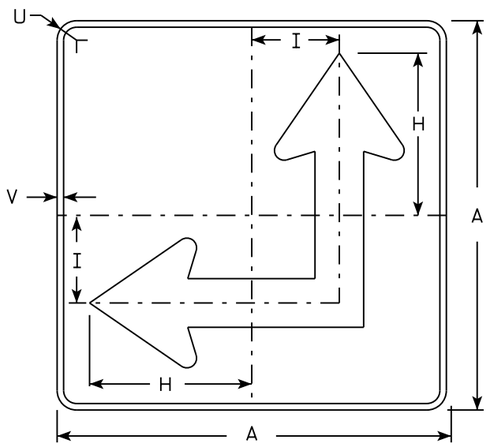
M6-6
MM6-6
MO6-6
MP6-6

NOTES

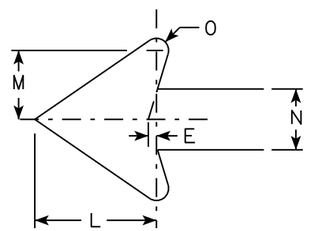
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See Note 4
   Message - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-4 and M6-6 Background - White
   Message - Black
   MB6-4 and MB6-6 Background - Blue
   Message - White
   MK6-4 and MK6-6 Background - Green
   Message - White
   MM6-4 and MM6-6 Background - White
   Message - Green
   MN6-4 and MN6-6 Background - Brown
   Message - White
   MO6-4 and MO6-6 Background - Orange - Type F Reflective
   Message - Black
   MP6-4 and MP6-6 Background - White
   Message - Blue
   MR6-4 and MR6-6 Background - Brown
   Message - Yellow
5. M6-6R same as M6-6L except arrow points ahead and right.



MB6-4
MK6-4
MN6-4
MR6-4



MB6-6
MK6-6
MN6-6
MR6-6



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	8 3/4	4 1/4			5 1/4	3	2 5/8	1/2						1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25

STANDARD SIGN
M6-4 & M6-6
SERIES

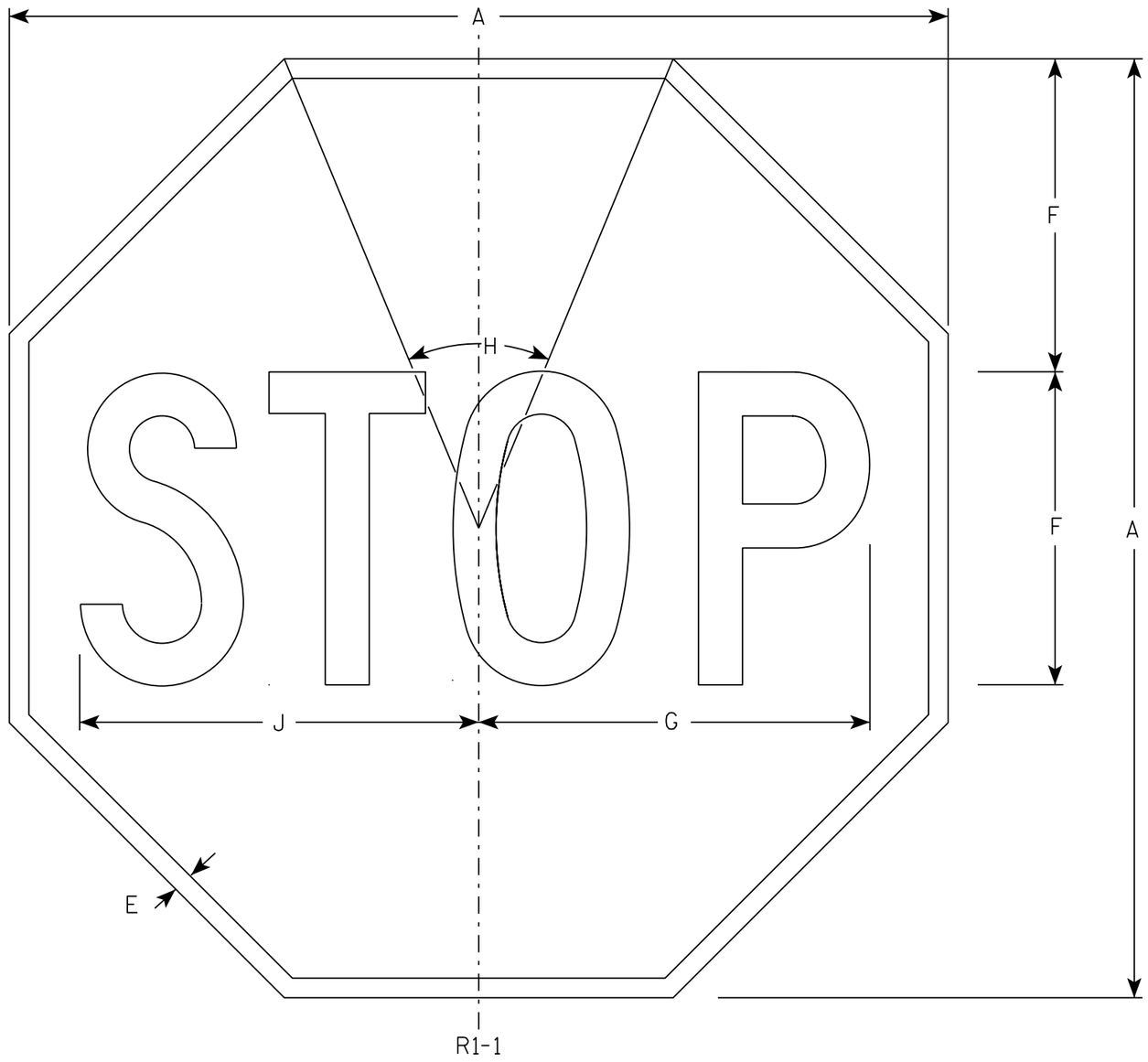
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE 1064 M6-4.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M64.DGN PLOT DATE : 01-DEC-2015 17:58 PLOT BY : $$ platuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

STANDARD SIGN

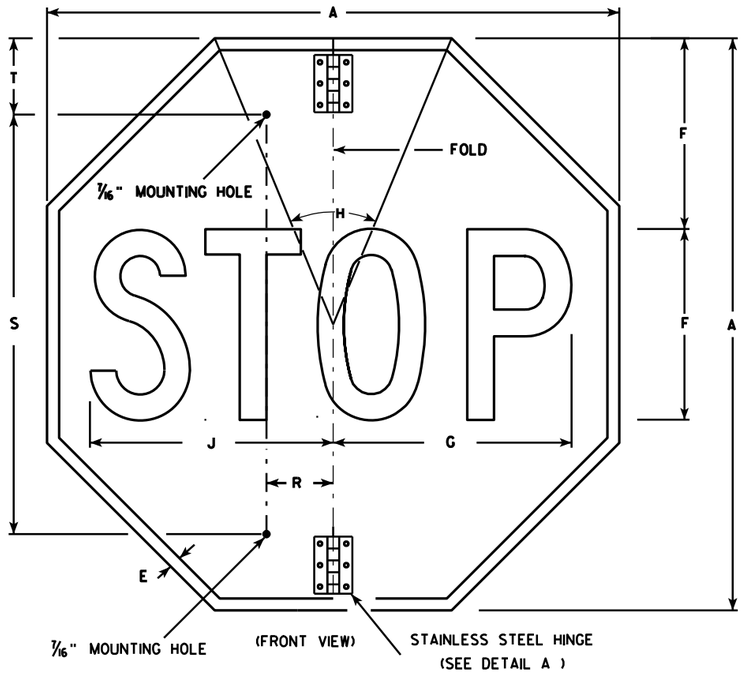
R1-1

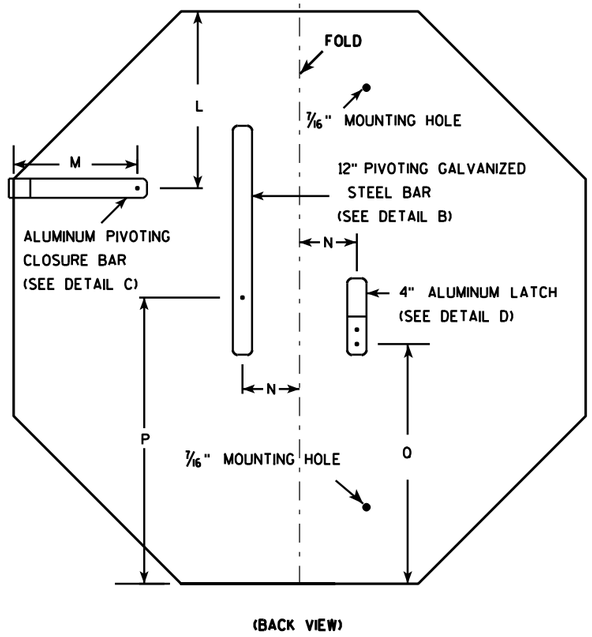
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/15 PLATE NO. R1-1.13

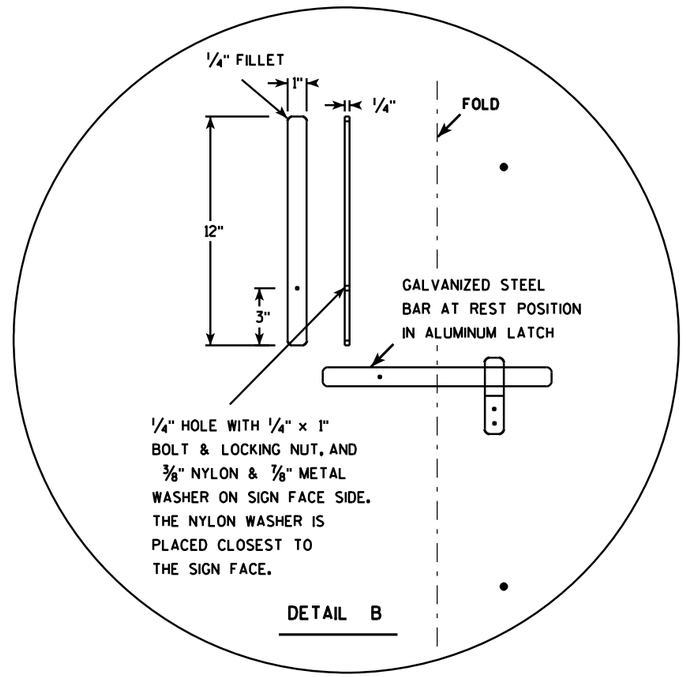
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 1065	E

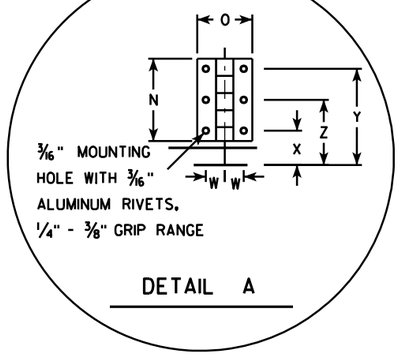


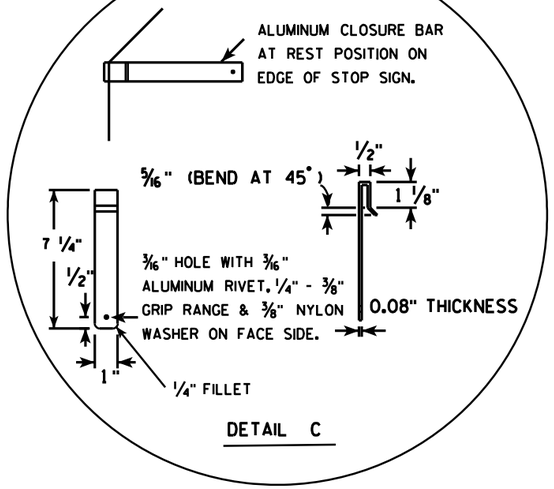


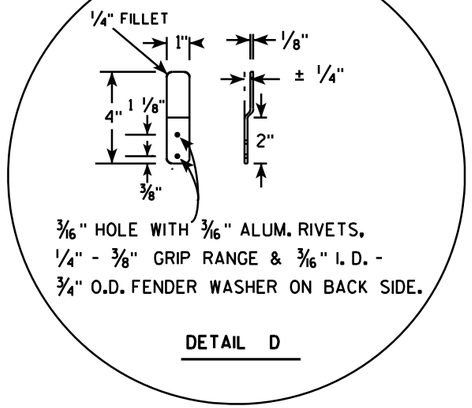
NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C
4. All hardware used on the folding STOP sign installation shall conform to 637.2.4 of the WIS DOT Standard Specification.









SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30				5/8	10	12 1/2	45		12 3/4		9 1/4	6 1/2	3	2	15	12 3/8	2 1/2	22	5			11/16	1 1/4	3 1/2	2 3/8	5.18
2M	36				3/4	12	15	45		15 3/8		11	6 1/2	3	2	18	15 3/8	2 1/2	26	5			11/16	1 1/4	3 1/2	2 3/8	7.46
3	36				3/4	12	15	45		15 3/8		11	6 1/2	3	2	18	15 3/8	2 1/2	26	5			11/16	1 1/4	3 1/2	2 3/8	7.46
4																											
5																											

STANDARD SIGN
R1-1F

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/03/10 PLATE NO. R1-1F.3

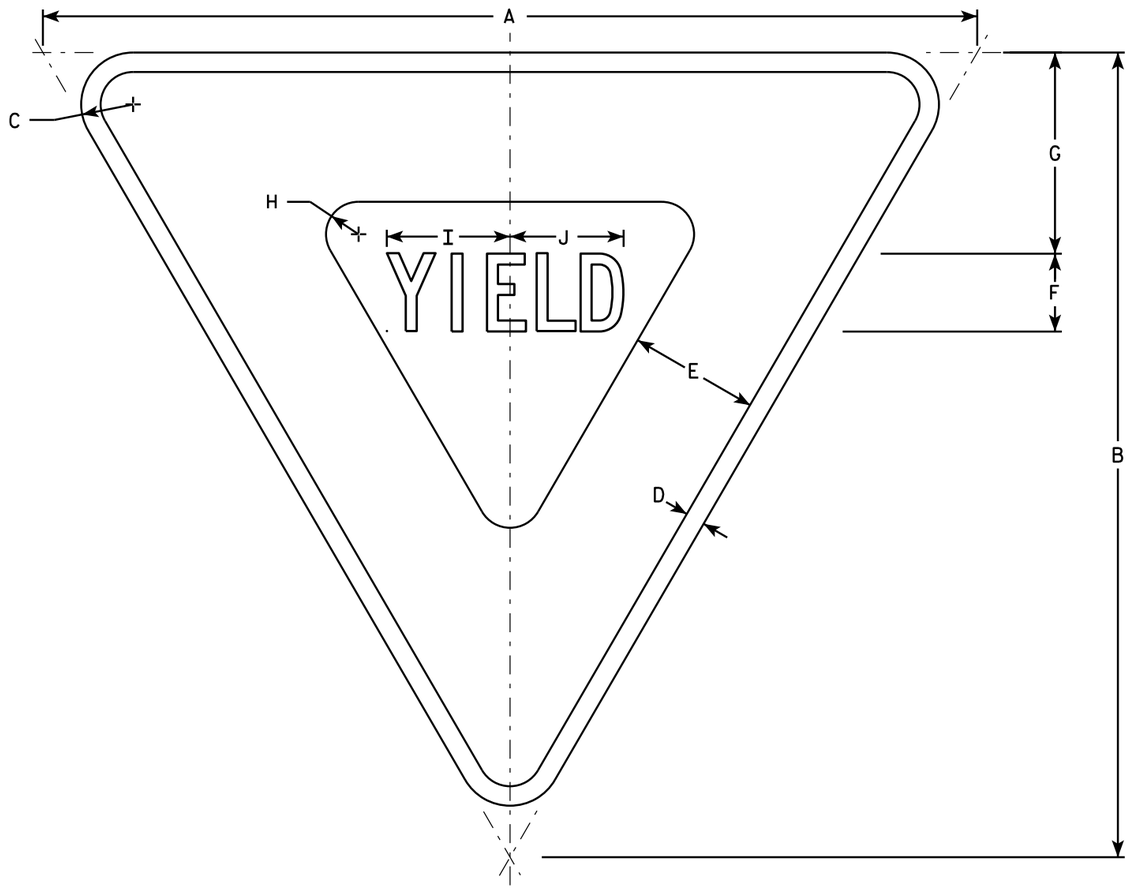
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 1066 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R11F.DGN PLOT DATE : 02-DEC-2010 15:26 PLOT BY : dotsja PLOT NAME : PLOT SCALE : 7.945391:1.000000

WISDOT/CADDS SHEET 42

7

7



R1-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. The border strip and word message are reflectorized red.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30	26	1 1/2	5/8	4	2 1/2	6 3/8	7/8	4	3 5/8																	2.71
2S	36	31	2	3/4	5	3	7 3/4	1 1/4	4 3/4	4 3/8																	3.88
2M	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
3	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
4	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
5	60	52	3	1 1/2	8	5	13	2 1/2	7 7/8	7 1/4																	10.83
6																											
7	18	15 1/2	1	3/8	2 1/2	1 1/2	3 7/8	5/8	2 3/8	2 1/4																	0.97

STANDARD SIGN
R1-2

WISCONSIN DEPT OF TRANSPORTATION

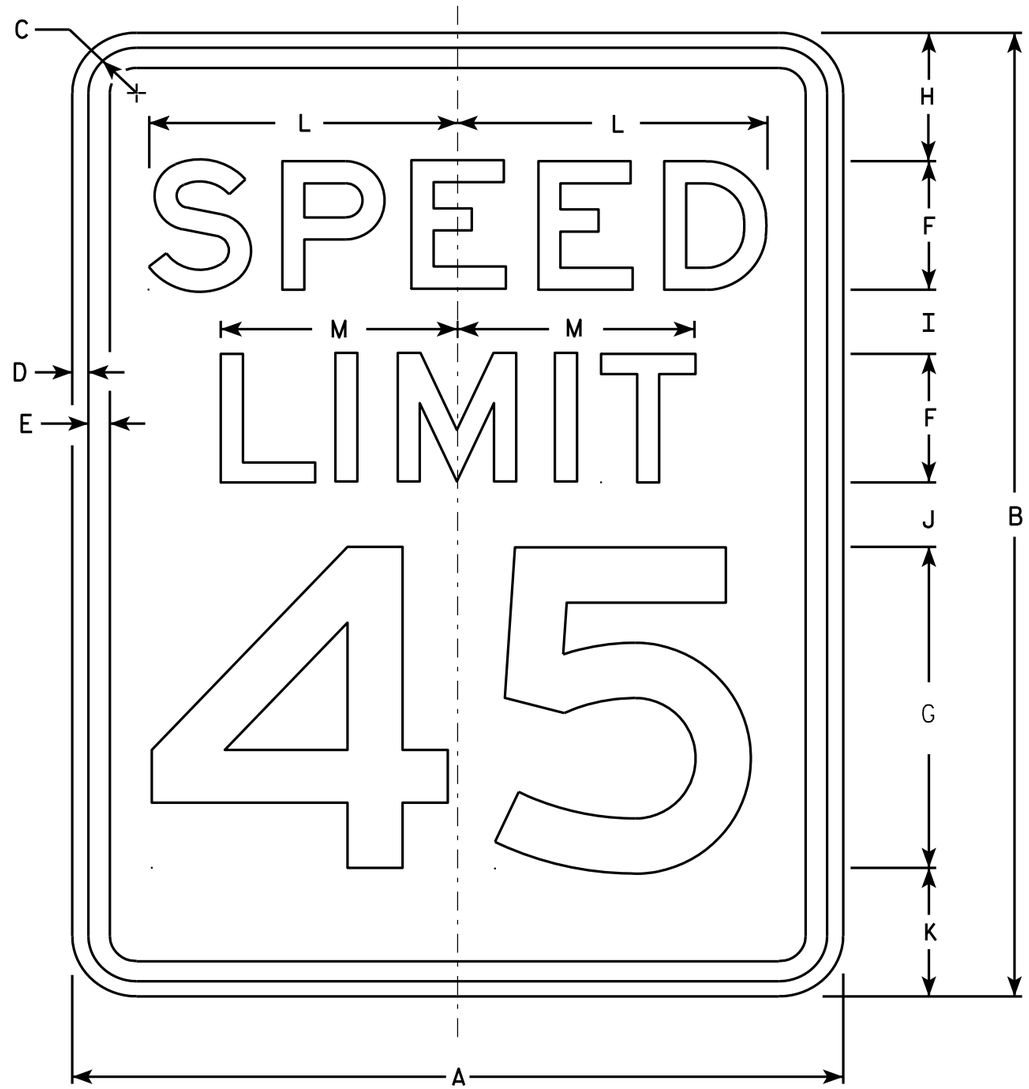
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/13/14 PLATE P1-2.12

1067

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\R12.DGN PLOT DATE : 13-OCT-2014 15:12 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 5.837526:1.000000



R2-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/8	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 3/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	2 1/4	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

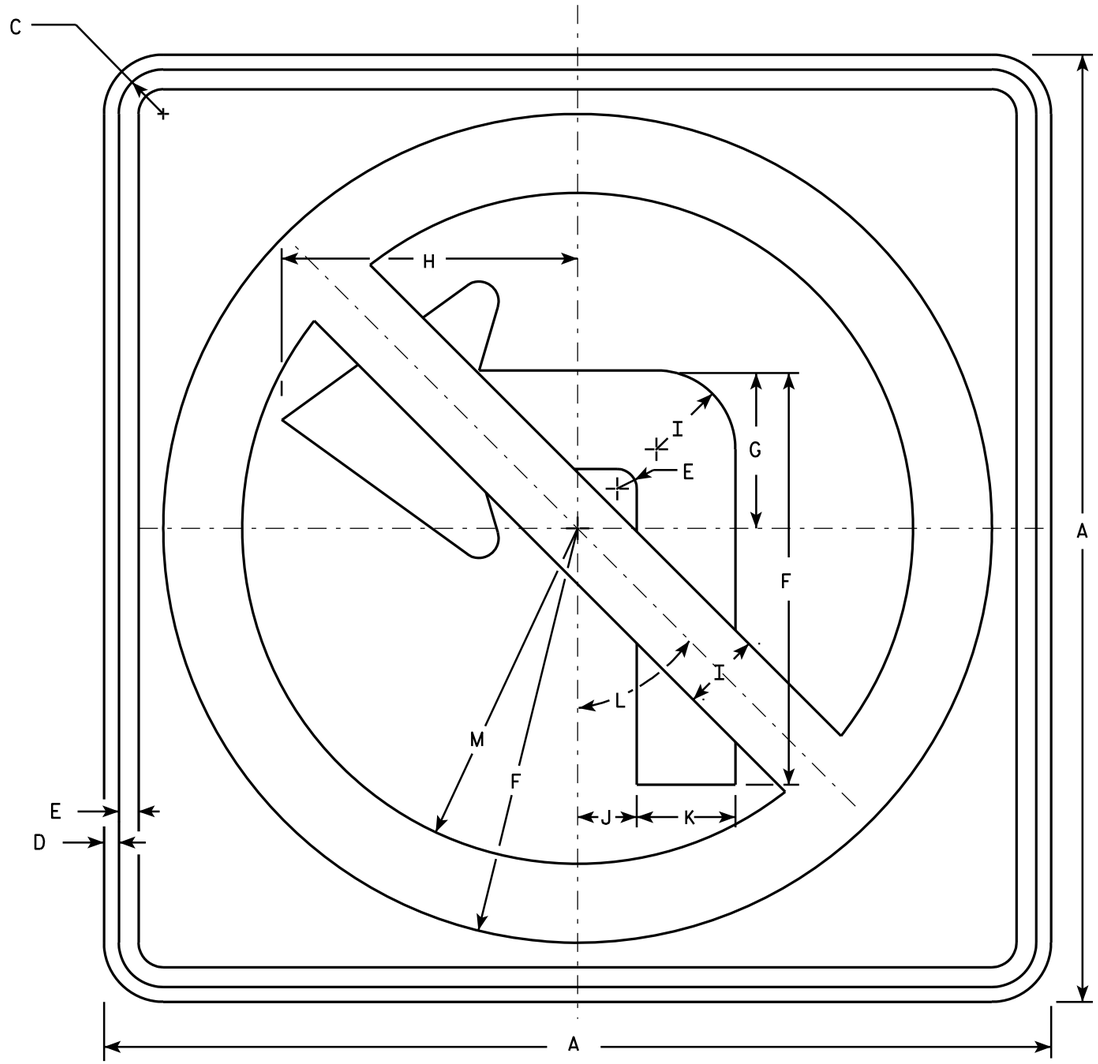
STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

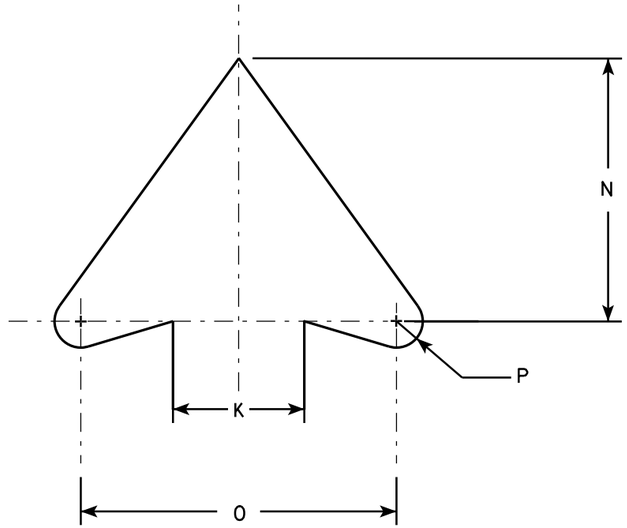
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 1068	E



R3-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2S	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2M	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
3	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
4	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1											16.0

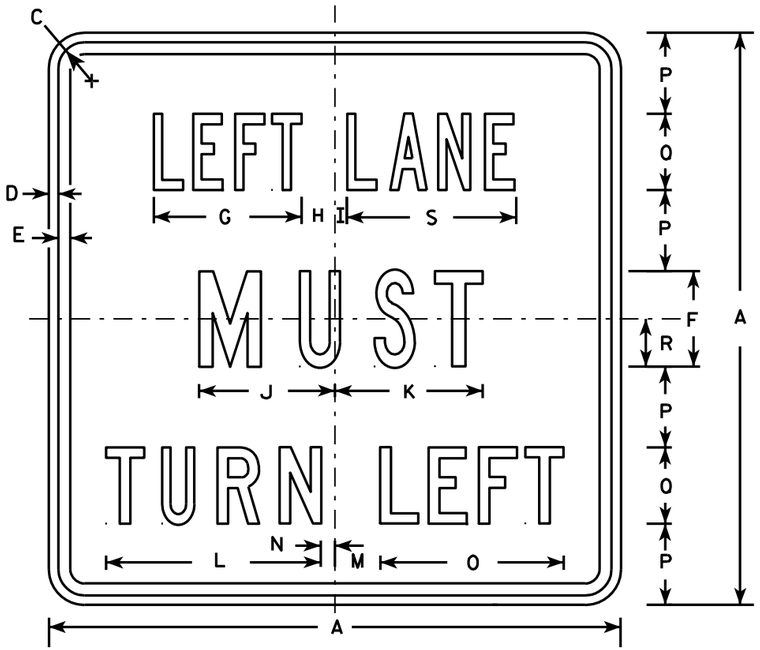
STANDARD SIGN
R3-2

WISCONSIN DEPT OF TRANSPORTATION

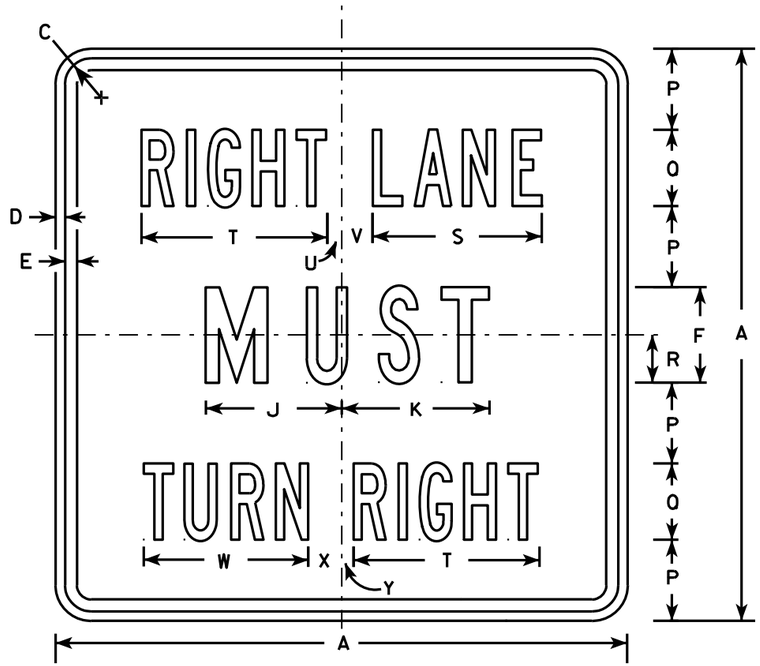
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-2.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 1069	E



R3-7L



R3-7R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - Line 1 is Series B.
   Line 2 is Series C.
   Line 3 on plate R3-7R is Series B and Series C on plate R3-7L.
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25
2S	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25
2M	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25
3	36		1 5/8	5/8	3/4	6	9 5/8	2	1 1/8	8 3/4	9	13 1/2	3 7/8	1 1/2	12 1/2	5	5	3	10 5/8	12	7/8	2 1/4	10 5/8	2 1/8	1		9.00
4	48		2 1/4	3/4	1	8	13 1/2	2 3/8	1 1/2	11 1/2	11 7/8	17 3/4	3 5/8	2 1/2	16 3/8	6 1/2	7	4	14 3/8	16 7/8	5/8	3 1/4	15 1/8	2 3/4	1 1/8		16.00
5																											

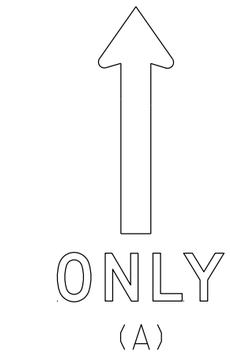
STANDARD SIGN
R3-7L & R3-7R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/2011 PLATE NO. R3-7.3

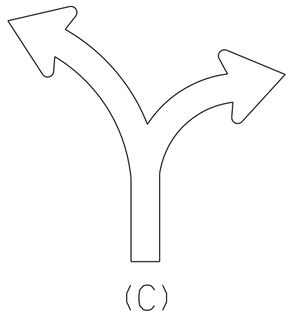
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 1070 | E

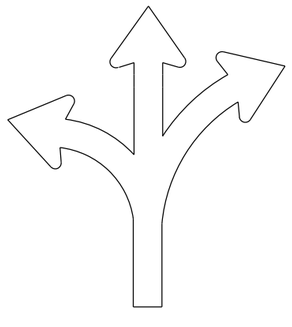


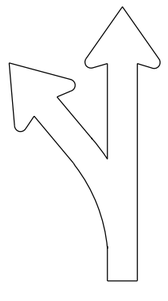
(A)

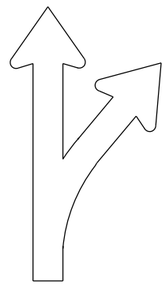


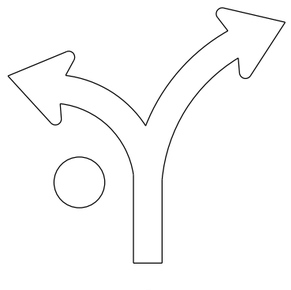
(B)

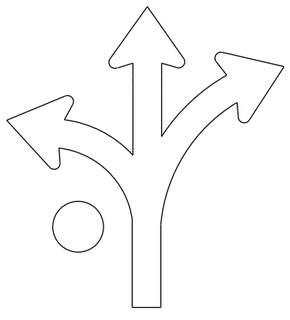

(C)

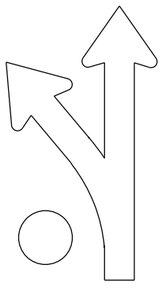

(D)

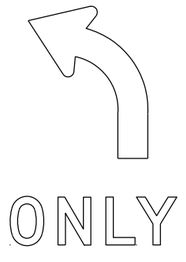

(E)


(F)

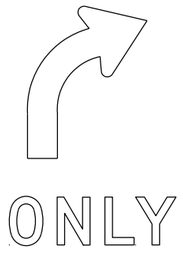

(G)


(H)

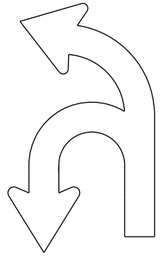

(I)



(L)



(R)


(U)

NOTES

1. Sigs are Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Use appropriate Letter for Sign Code
   Each letter added makes sign wider. Example R3-8EAR
5. Square footage of sign varies by letters

1	Letter =	3.75 sq ft for Size 2
		6.0 sq ft for Size 3
		10.0 sq ft for Size 4 or 5
2	Letters =	7.5 sq ft for Size 2
		12.0 sq ft for Size 3
		20.0 sq ft for Size 4 or 5
3	Letters =	11.25 sq ft for Size 2
		18.0 sq ft for Size 3
		30.0 sq ft for Size 4 or 5
4	Letters =	15.0 sq ft for Size 2
		24.0 sq ft for Size 3
		40.0 sq ft for Size 4 or 5
5	Letters =	18.75 sq ft for Size 2
		30.0 sq ft for Size 3
		50.0 sq ft for Size 4 or 5
6	Letters =	22.5 sq ft for Size 2
		36.0 sq ft for Size 3
		60.0 sq ft for Size 4 or 5

6. When letters C,D,G,H are used on the Left or Right end of the sign the Sq. Ft. changes.
   Add the amounts when these letters are used:
   1.25 sq ft for Size 2
   1.5 sq ft for Size 3
   2.0 sq ft for Size 4 or 5

STANDARD SIGN
R3-8 Series

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO:

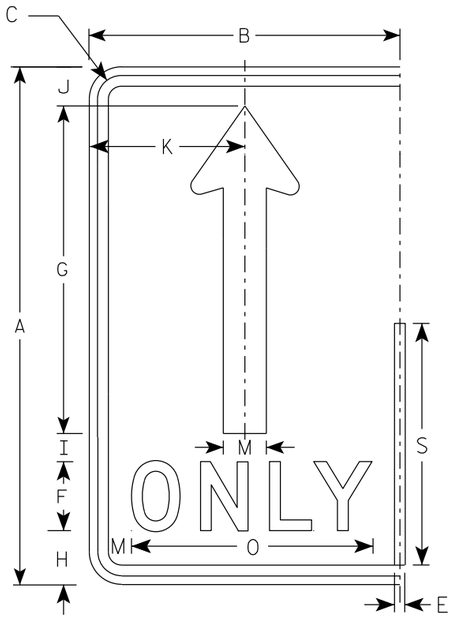
SHEET NO: 1071 E

7

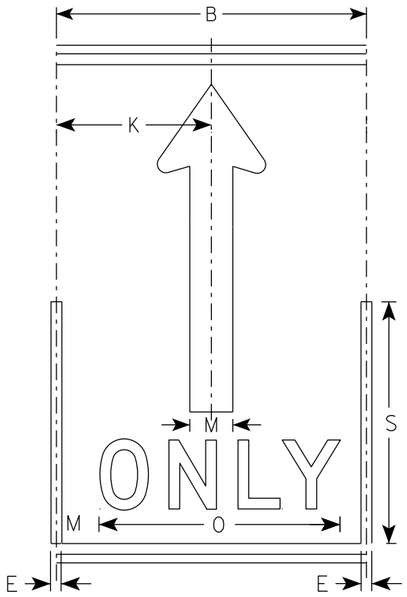
FILE NAME : C:\CAEfiles\Projects\stdplate_R38.dgn PLOT DATE : 21-MAY 2019 4:37 PLOT BY : mscj9h PLOT NAME :

NOTES

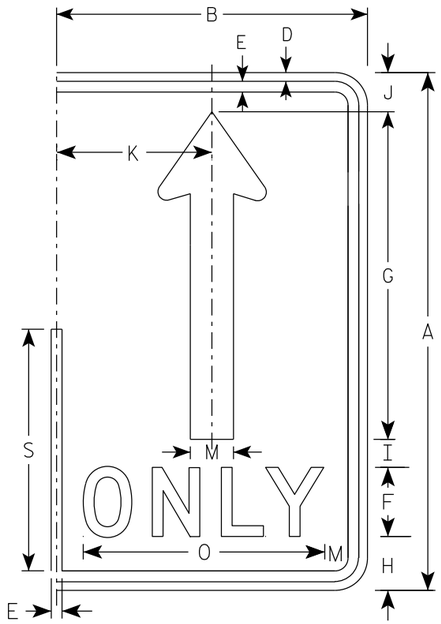
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D



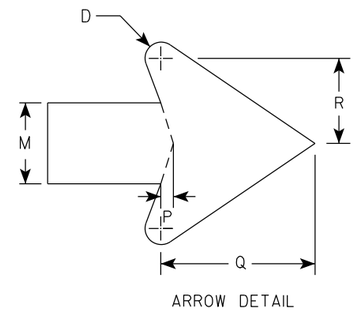
(A)



(A)



(A)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8	4	19	3 1/8	1 5/8	2 1/4	9		2 1/2		14	3/8	4 3/4	2 5/8	14								3.75
2M	30	18	1 3/8	1/2	5/8	4	19	3 1/8	1 5/8	2 1/4	9		2 1/2		14	3/8	4 3/4	2 5/8	14								3.75
3	36	24	1 3/8	1/2	5/8	5	22 3/4	3 3/4	1 3/4	2 3/4	12		3		17 5/8	1/2	5 3/4	3 1/8	16 3/4								6.0
4	48	30	2 1/4	3/4	1	6	30 3/8	5 1/8	2 7/8	3 5/8	15		4		21 3/4	5/8	7 5/8	4 1/4	22 3/8								10.0
5	48	30	2 1/4	3/4	1	6	30 3/8	5 1/8	2 7/8	3 5/8	15		4		21 3/4	5/8	7 5/8	4 1/4	22 3/8								10.0

STANDARD SIGN
R3-8 (A) Arrow

WISCONSIN DEPT OF TRANSPORTATION

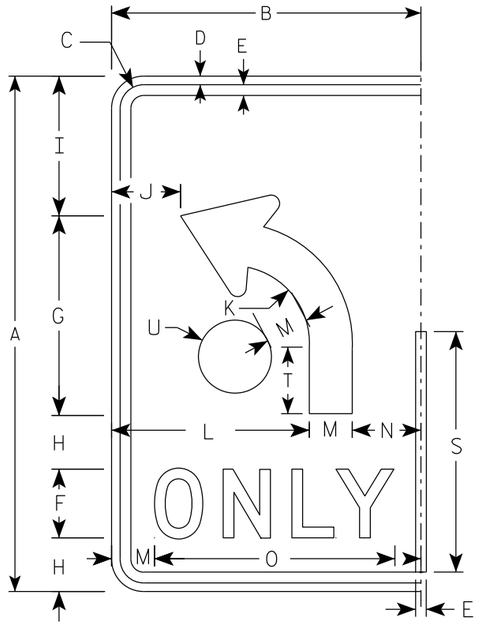
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

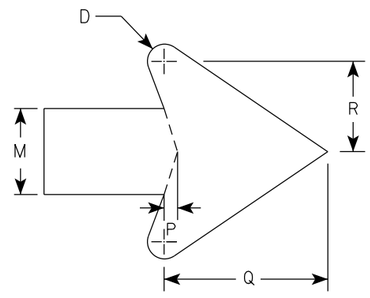
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 1072 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
   Message Series - D



(B)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8	2 1/8						3.75
2M	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8	2 1/8						3.75
3	36	24	1 3/8	1/2	5/8	5	14	3 1/2	9 3/4	6	5 3/8	15	3	6	17 5/8	1/2	5 3/4	3 1/8	16 3/4	4 5/8	2 1/2						6.0
4	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4	3 3/8						10.0
5	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4	3 3/8						10.0

STANDARD SIGN

R3-8 (B) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

for State Traffic Engineer

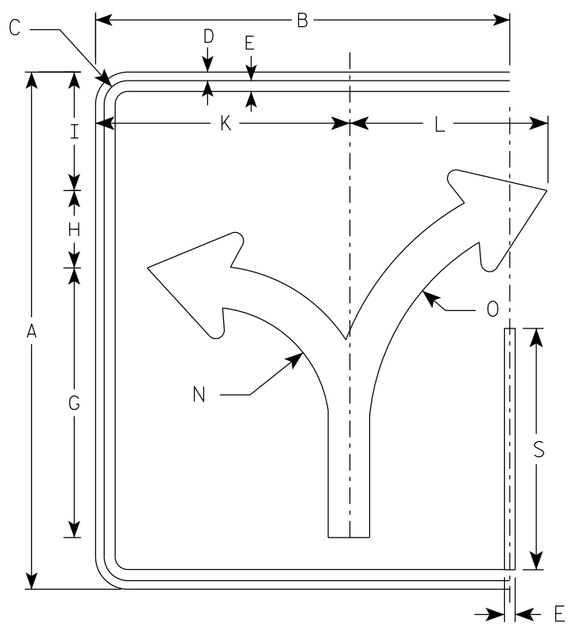
DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO:

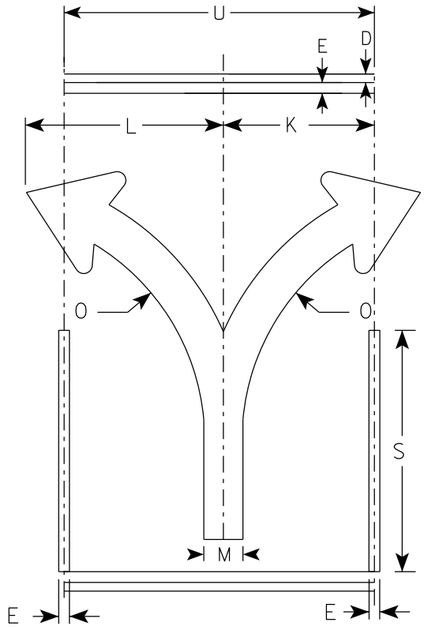
SHEET NO: 1073 E

NOTES

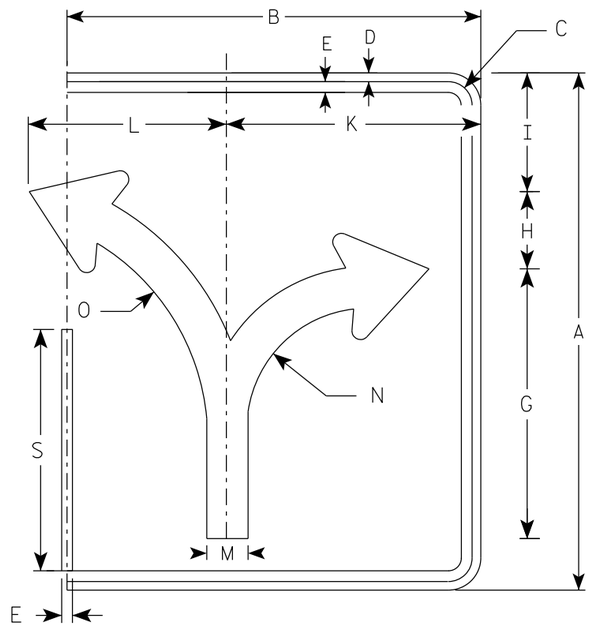
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



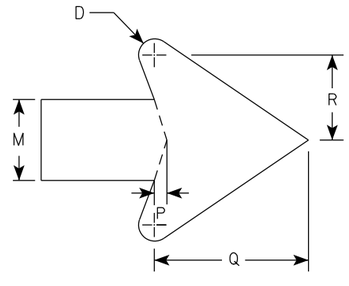
(C)



(C)



(C)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	ENDS Area sq. ft.	MIDDLE Area sq. ft.
1																												
2S	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	6 7/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
2M	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	6 7/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	8 1/4		17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 1/2	3	16 3/4		24						7.5	6.0
4	48	36	2 1/4	3/4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0
5	48	36	2 1/4	3/4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0

STANDARD SIGN
R3-8 (C) Arrow

WISCONSIN DEPT OF TRANSPORTATION

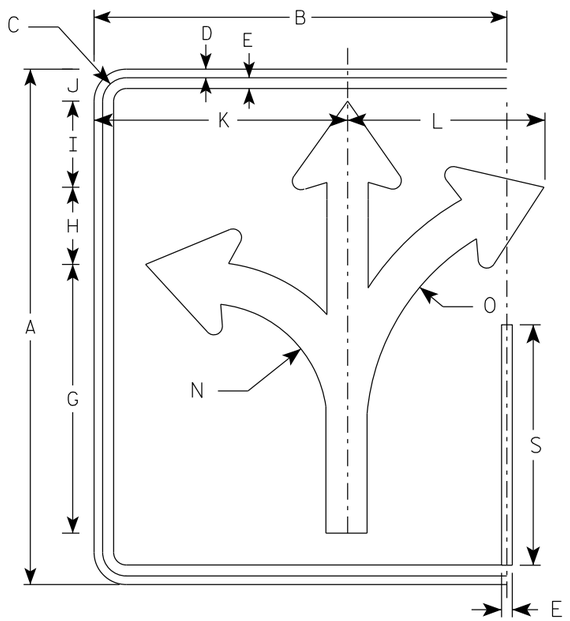
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

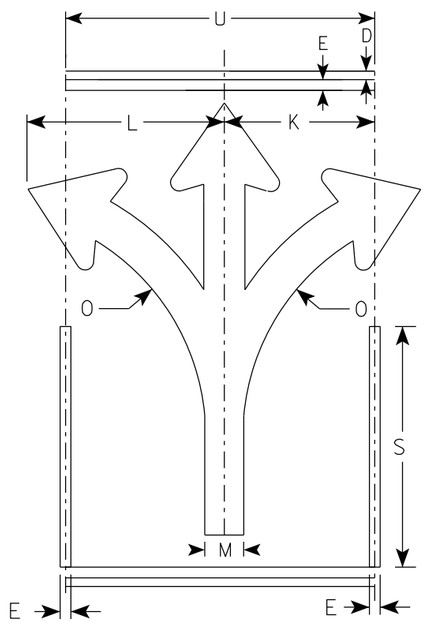
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 1074 | E

NOTES

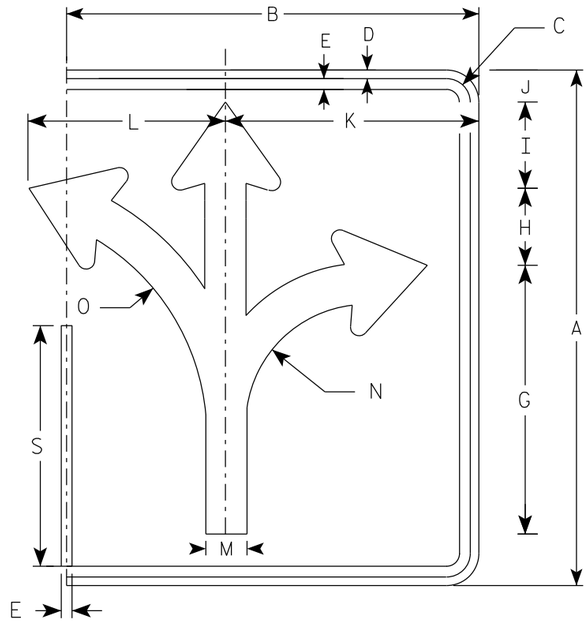
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



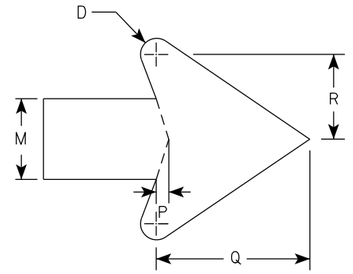
(D)



(D)



(D)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	ENDS Area sq. ft.	MIDDLE Area sq. ft.
1																												
2S	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	5	1 7/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
2M	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	5	1 7/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	6	2 1/4	17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 1/2	3	16 3/4		24						7.5	6.0
4	48	36	2 1/4	3/4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0
5	48	36	2 1/4	3/4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0

STANDARD SIGN
R3-8 (D) Arrow

WISCONSIN DEPT OF TRANSPORTATION

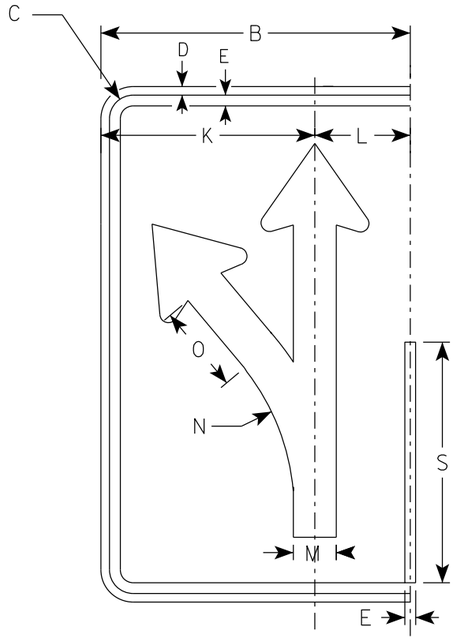
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

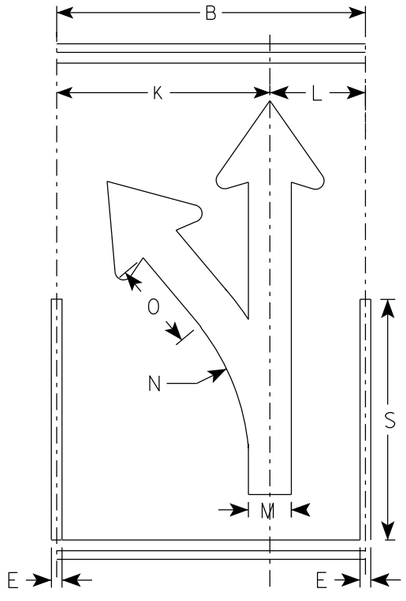
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 1075 | E

NOTES

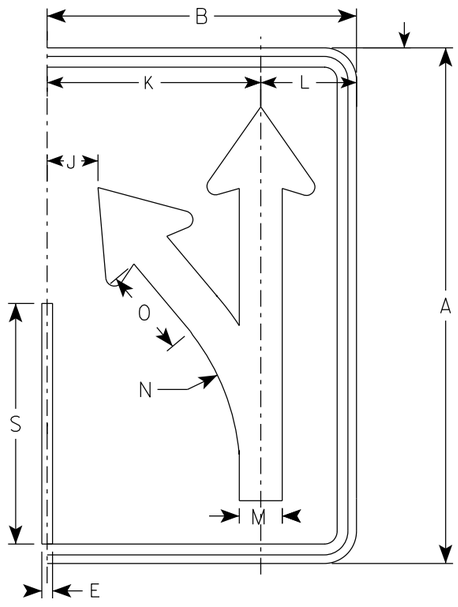
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



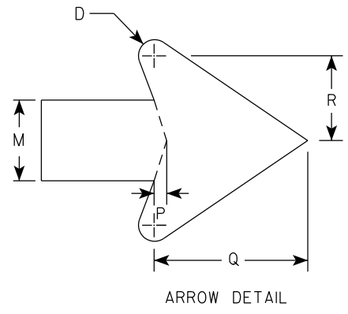
(E)



(E)



(E)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
2M	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
3	36	24	1 3/8	1/2	5/8		21 7/8	5 5/8	4	4 7/8	16 1/8	7 3/4	3	15 7/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4								6.0
4	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0
5	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0

STANDARD SIGN
R3-8 (E) Arrow

WISCONSIN DEPT OF TRANSPORTATION

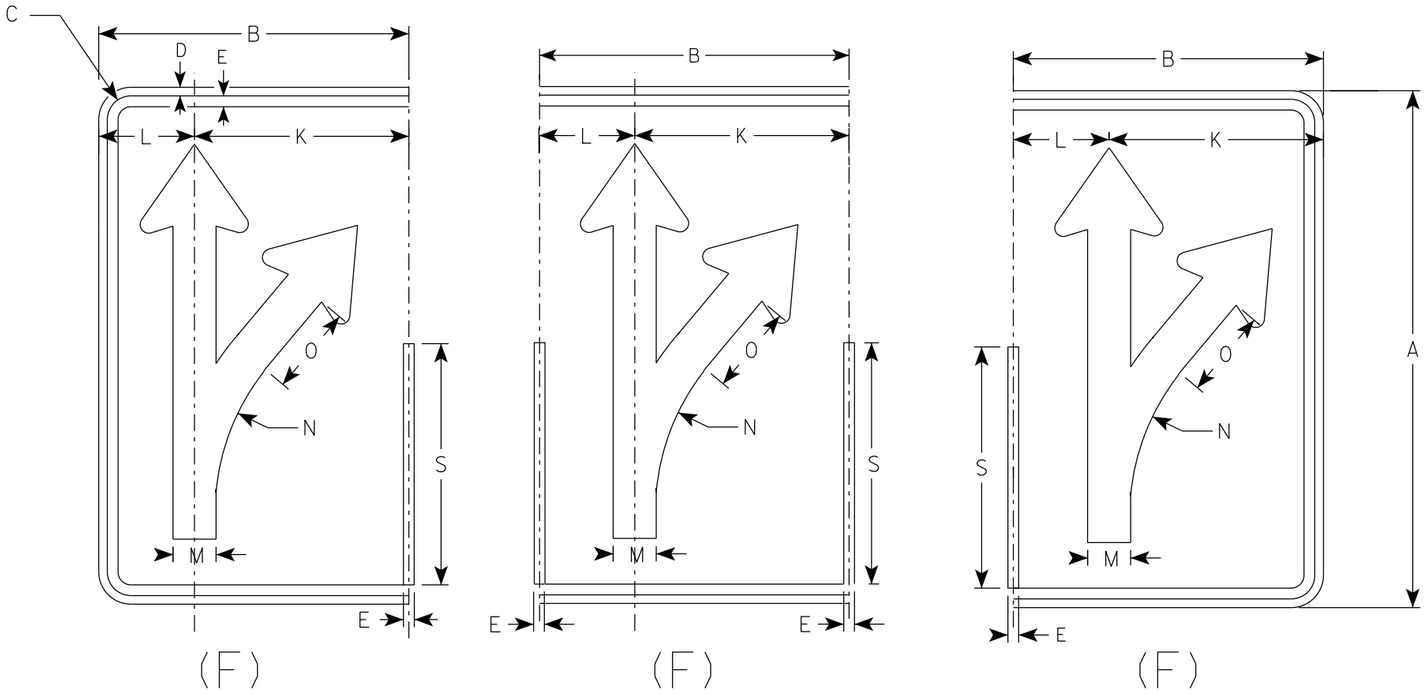
APPROVED Matthew R Rauch
For State Traffic Engineer

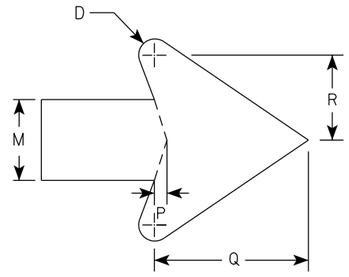
DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 1076 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None





ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
2M	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
3	36	24	1 3/8	1/2	5/8		21 7/8	5 5/8	4	4 7/8	16 1/8	7 3/4	3	15 7/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4								6.0
4	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0
5	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0

STANDARD SIGN
R3-8 (F) Arrow

WISCONSIN DEPT OF TRANSPORTATION

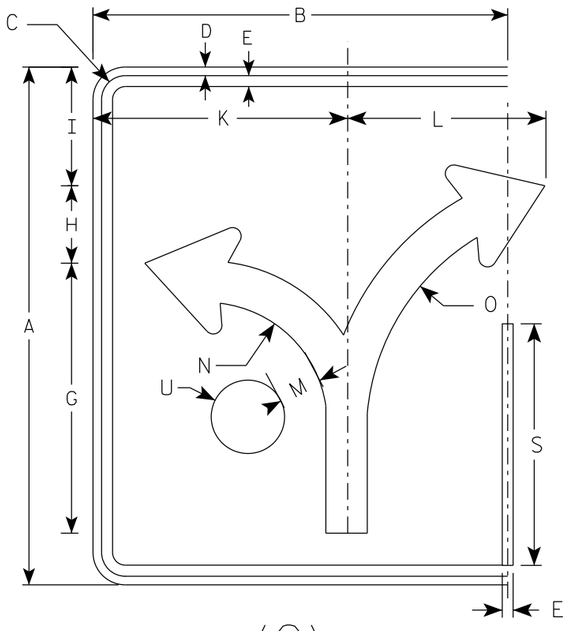
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

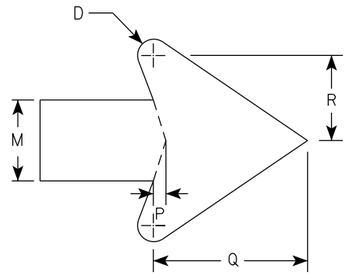
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 1077 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(G)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	6 7/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
2M	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	6 7/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	8 1/4		17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 1/2	3	16 3/4		2 1/2						7.5
4	48	36	2 1/4	3/4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0
5	48	36	2 1/4	3/4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0

STANDARD SIGN
R3-8 (G) Arrow

WISCONSIN DEPT OF TRANSPORTATION

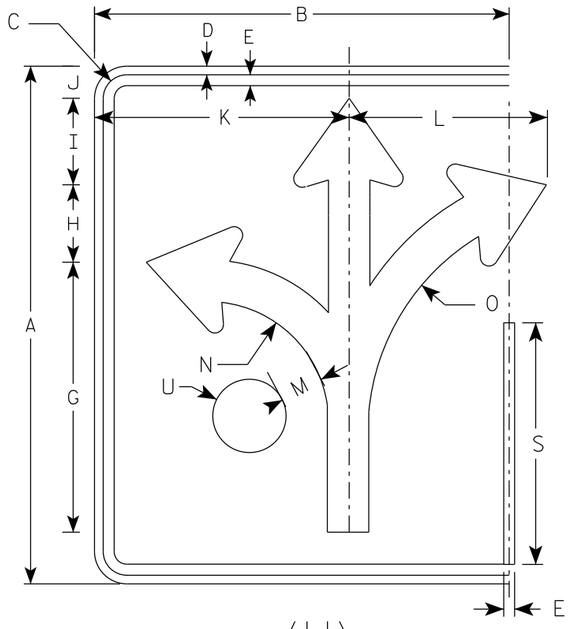
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

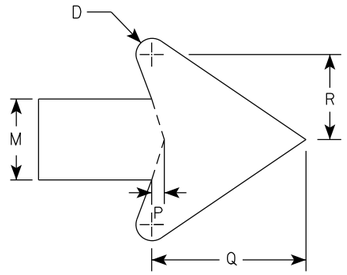
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 1078 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(H)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	5	1 7/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
2M	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	5	1 7/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	6	3 1/8	17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 1/2	3	16 3/4		2 1/2						7.5
4	48	36	2 1/4	3/4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0
5	48	36	2 1/4	3/4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0

STANDARD SIGN
R3-8 (H) Arrow

WISCONSIN DEPT OF TRANSPORTATION

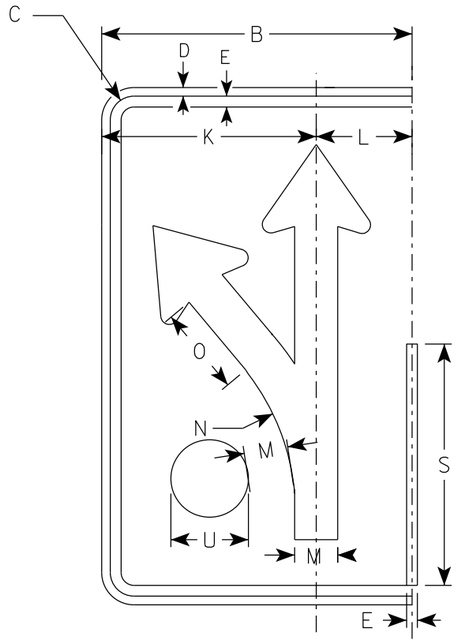
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

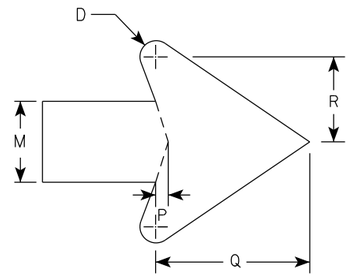
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 1079	E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(I)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14		2 1/8						3.75
2M	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14		2 1/8						3.75
3	36	24	1 3/8	1/2	5/8		21 7/8	5 5/8	4	4 7/8	16 1/8	7 3/4	3	15 7/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4		2 1/2						6.0
4	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8		3 3/8						10.0
5	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8		3 3/8						10.0

STANDARD SIGN
R3-8 (I) Arrow

WISCONSIN DEPT OF TRANSPORTATION

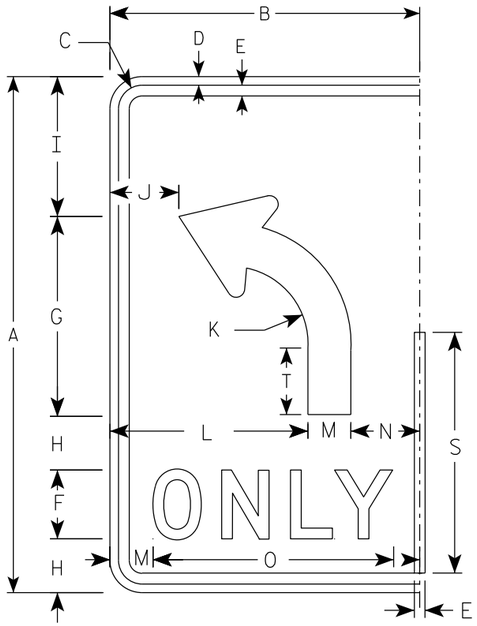
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

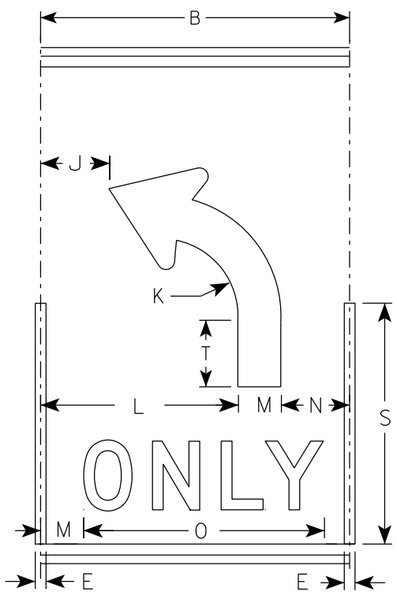
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 1080 | E

NOTES

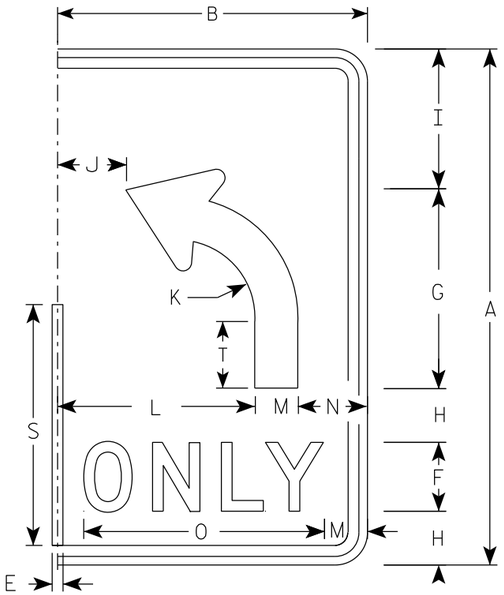
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D



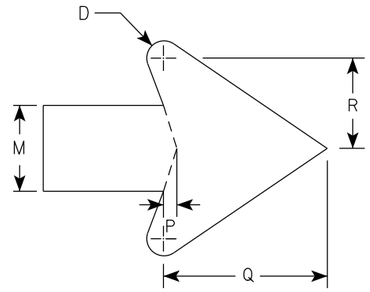
(L)



(L)



(L)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8							3.75
2M	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8							3.75
3	36	24	1 3/8	1/2	5/8	5	14	3 1/2	9 3/4		5 3/8	15	3	6	17 5/8	1/2	5 3/4	3 1/8	16 3/4	4 5/8							6.0
4	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0
5	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0

STANDARD SIGN

R3-8 (L) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

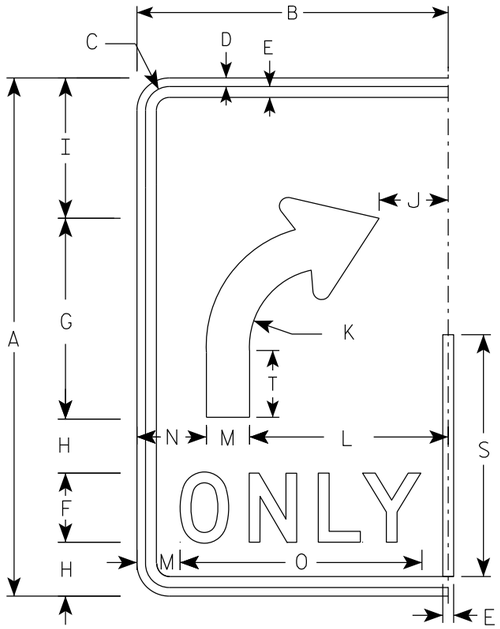
DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO:

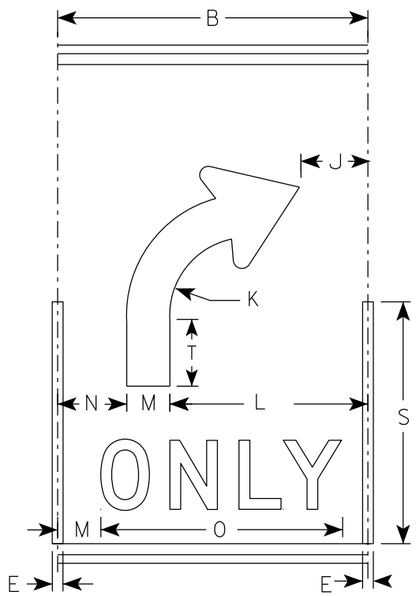
SHEET NO: 1081 E

NOTES

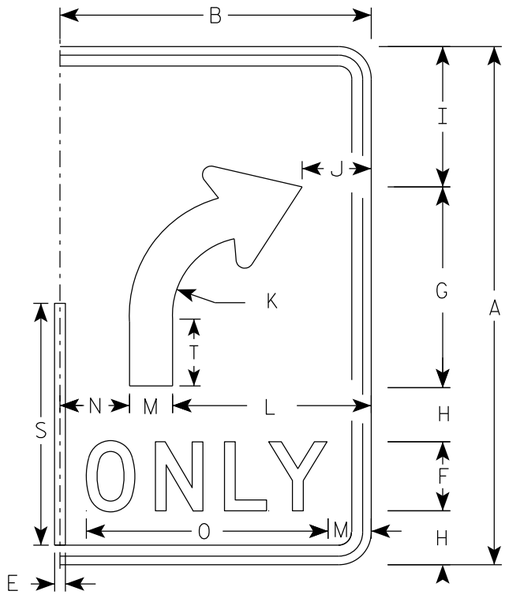
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D



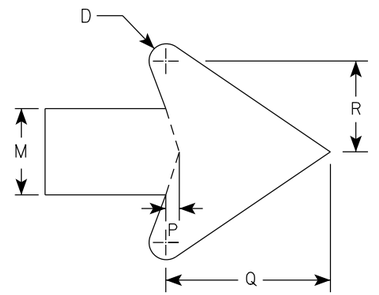
(R)



(R)



(R)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8							3.75
2M	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8							3.75
3	36	24	1 3/8	1/2	5/8	5	14	3 1/2	9 3/4	6	5 3/8	15	3	6	17 5/8	1/2	5 3/4	3 1/8	16 3/4	4 5/8							6.0
4	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0
5	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0

STANDARD SIGN

R3-8 (R) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

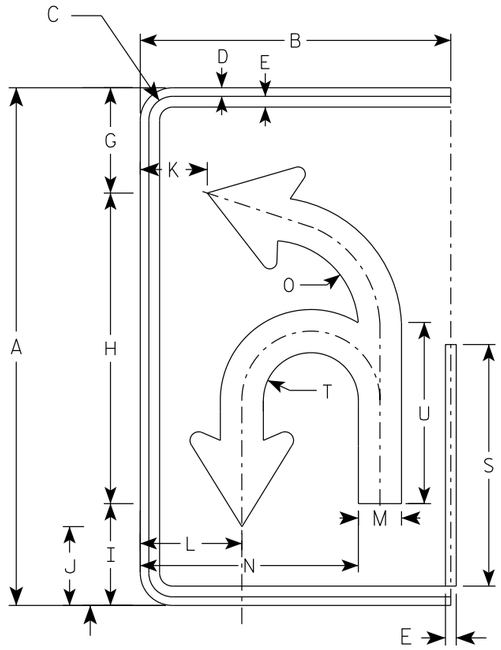
DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO:

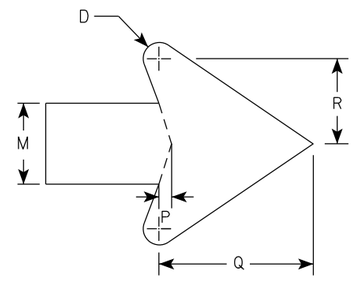
SHEET NO: 1082 E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(U)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8		6 1/8	18	5 7/8	4 5/8	3 7/8	5 7/8	2 1/2	12 5/8	5 1/8	3/8	4 3/4	2 5/8	14	2 3/4	10 1/2						3.75
2M	30	18	1 3/8	1/2	5/8		6 1/8	18	5 7/8	4 5/8	3 7/8	5 7/8	2 1/2	12 5/8	5 1/8	3/8	4 3/4	2 5/8	14	2 3/4	10 1/2						3.75
3	36	24	1 3/8	1/2	5/8		21 7/8	21 5/8	7 1/8	5 1/2	5 7/8	8 1/4	3	16 3/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4	3 1/4	12 5/8						6.0
4	48	30	2 1/4	3/4	1		29 1/8	28 3/4	9 3/8	7 1/4	6 7/8	10	4	20 7/8	8 1/8	5/8	7 5/8	4 1/4	22 3/8	4 3/8	16 3/4						10.0
5	48	30	2 1/4	3/4	1		29 1/8	28 3/4	9 3/8	7 1/4	6 7/8	10	4	20 7/8	8 1/8	5/8	7 5/8	4 1/4	22 3/8	4 3/8	16 3/4						10.0

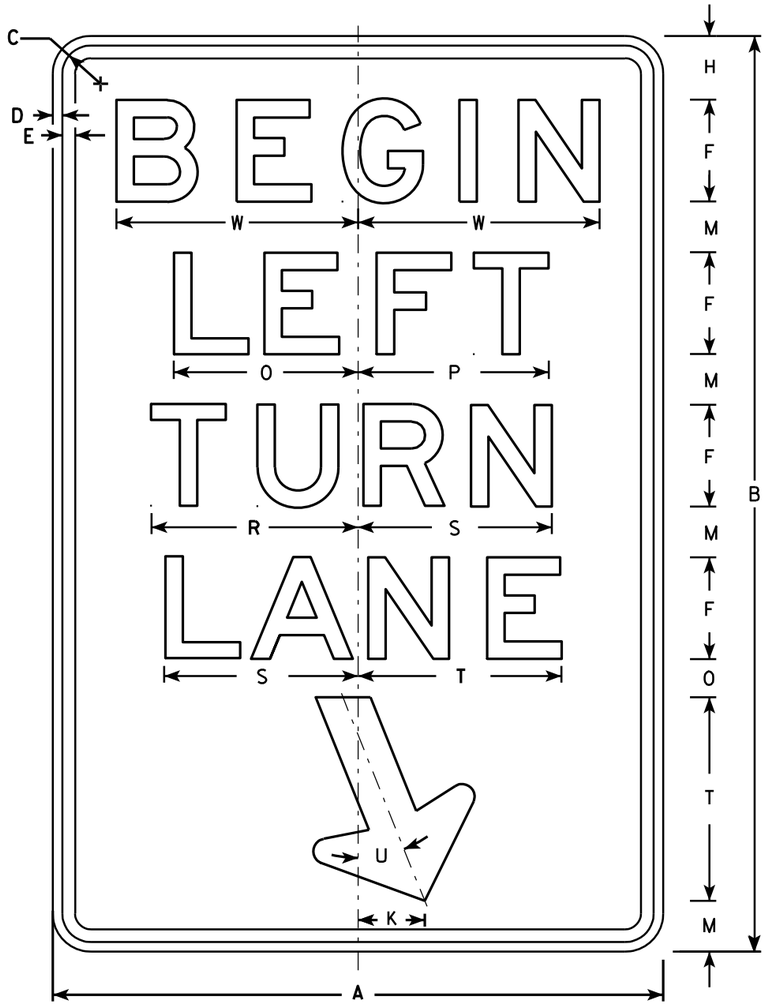
STANDARD SIGN
R3-8 (U) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

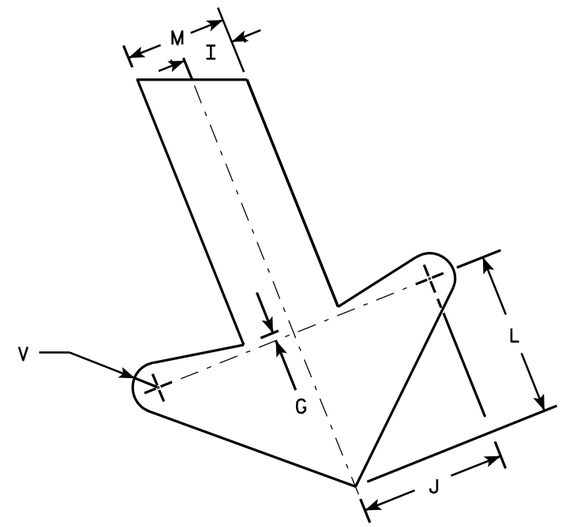
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 1083 | E



R3-20L

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
2M	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
3	36	54	1 3/4	1/2	5/8	6	3/8	3 3/4	1 1/2	4 1/4	4	4 7/8	3	2 1/4	10 7/8	11 1/4		12 1/4	11 1/2	12	22°	3/4	13 1/4				13.5
4																											
5																											

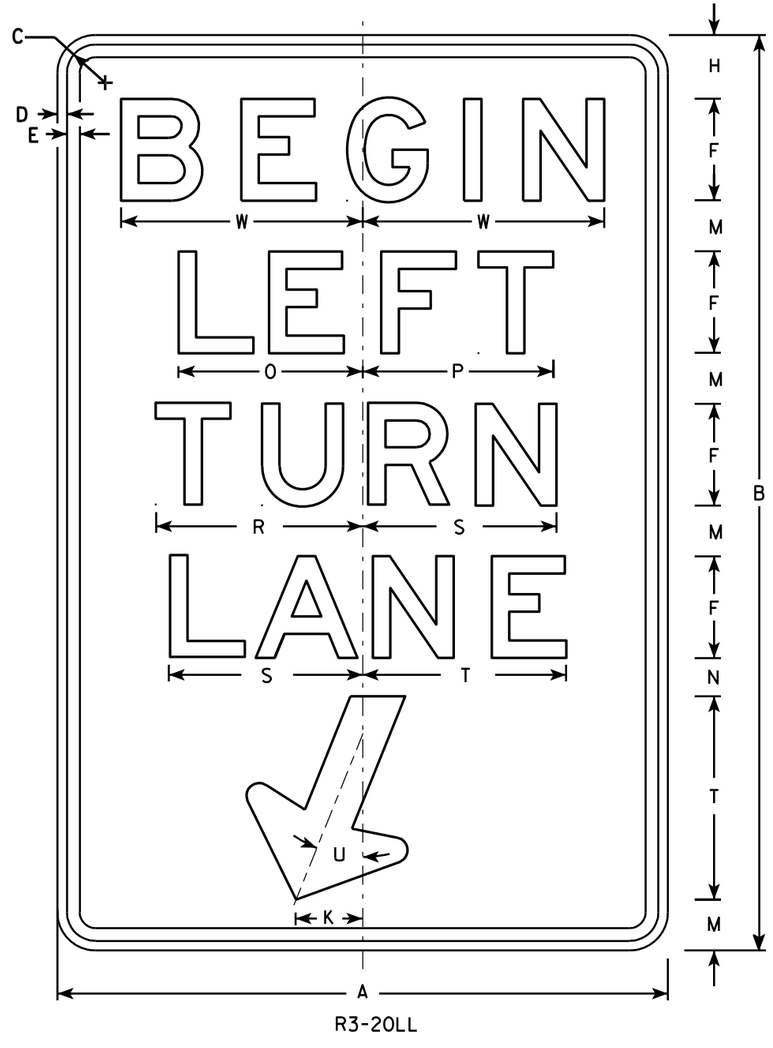
STANDARD SIGN
R3-20L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/18/10 PLATE NO. R3-20L.7

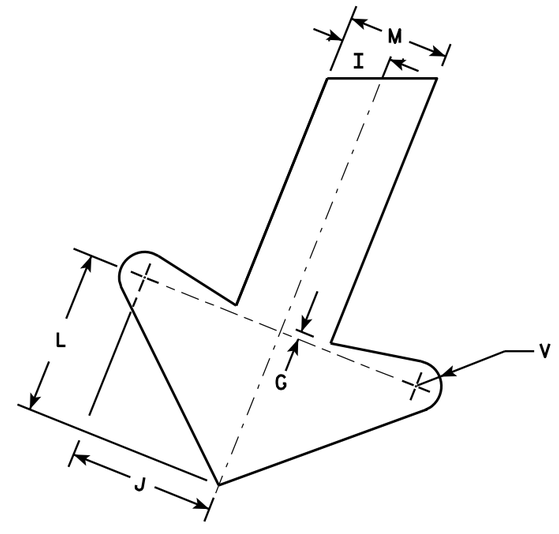
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 1084 | E



R3-20LL

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
2M	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
3	36	54	1 3/4	1/2	5/8	6	3/8	3 3/4	1 1/2	4 1/4	4	4 7/8	3	2 1/4	10 7/8	11 1/4		12 1/4	11 1/2	12	22°	3/4	13 1/4				13.5
4																											
5																											

STANDARD SIGN
R3-20LL

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/18/10 PLATE NO. R3-20LL.1

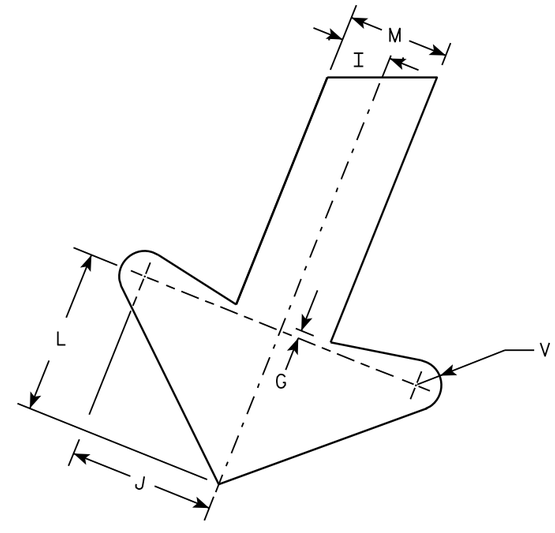
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 1085	E



R3-20R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	8 1/2	8 1/4		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
2M	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	8 1/2	8 1/4		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
3	36	54	1 3/4	1/2	5/8	6	3/8	3 3/4	1 1/2	4 1/4	4	4 7/8	3	2 1/4	12 3/4	12 1/2		12 1/4	11 1/2	12	22°	3/4	13 1/4				13.5
4																											
5																											

STANDARD SIGN
R3-20R

WISCONSIN DEPT OF TRANSPORTATION

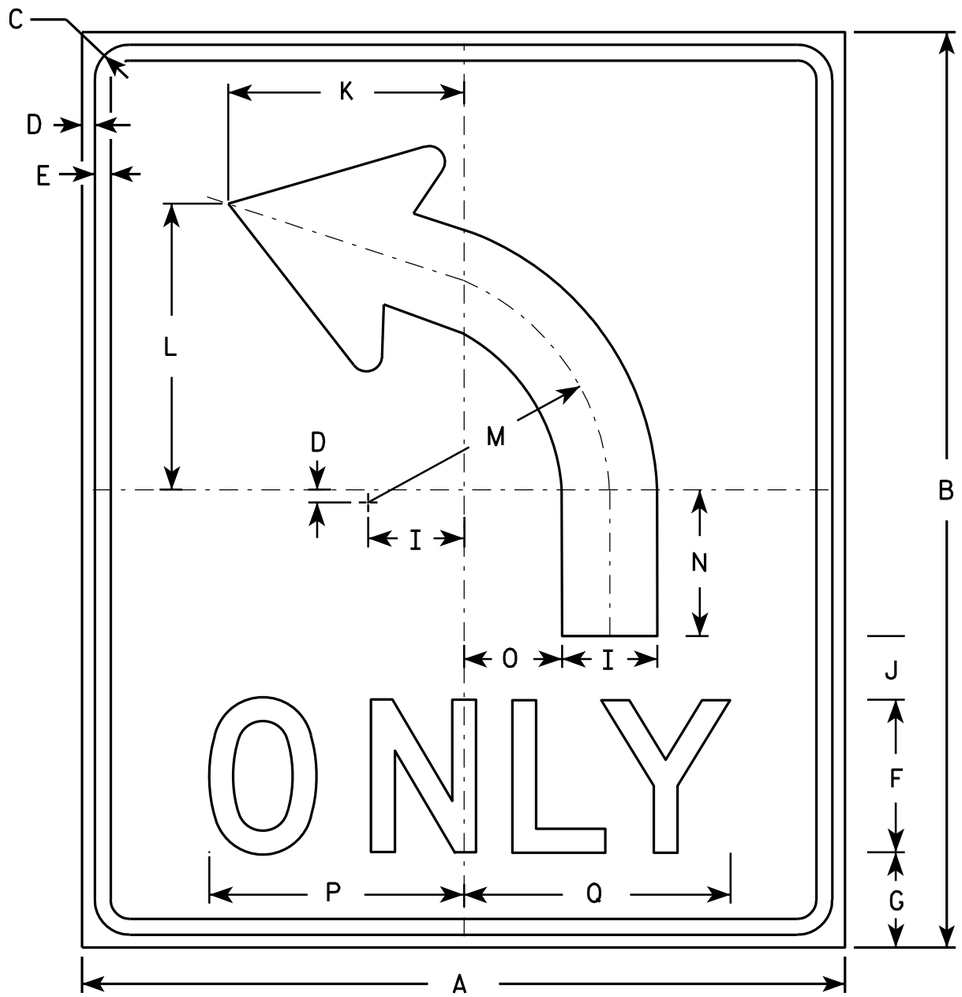
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/18/10 PLATE NO. R3-20R.6

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 1086 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R320R.DGN PLOT DATE : 15-OCT-2010 14:59 PLOT BY : dotsja PLOT NAME : PLOT SCALE : 5.959043:1.000000

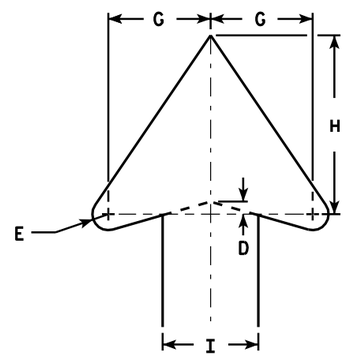
WISDOT/CADDS SHEET 42



R3-50L

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. R3-50R is the same as R3-50L except curved portion of arrow points right.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	36	1 3/8	1/2	5/8	6	4	7	3 3/4	2 1/2	9 1/4	11 1/4	9 1/2	5 3/4	3 7/8	10	10 1/2										7.5
2M	30	36	1 3/8	1/2	5/8	6	4	7	3 3/4	2 1/2	9 1/4	11 1/4	9 1/2	5 3/4	3 7/8	10	10 1/2										7.5
3																											
4																											
5																											

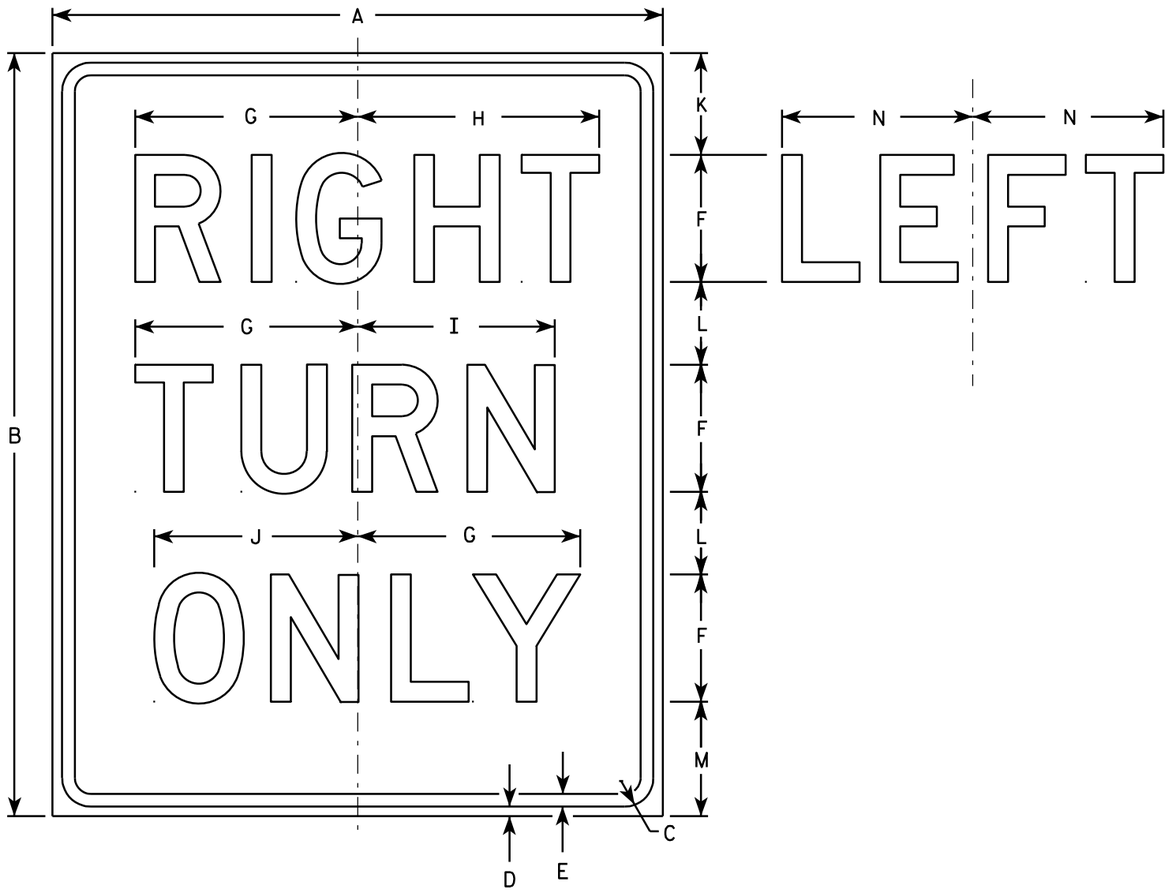
STANDARD SIGN
R3-50

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/24/2011 PLATE NO. R3-50.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 1087 | E



R3-53R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. R3-53L same as R3-53R except LEFT is substituted for RIGHT.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	30	1 1/8	3/8	1/2	5	8 3/4	9 1/2	7 3/4	8	4	3 1/4	4 1/2	7 1/2													5.0
2M	24	30	1 1/8	3/8	1/2	5	8 3/4	9 1/2	7 3/4	8	4	3 1/4	4 1/2	7 1/2													5.0
3	24	30	1 1/8	3/8	1/2	5	8 3/4	9 1/2	7 3/4	8	4	3 1/4	4 1/2	7 1/2													5.0
4																											
5																											

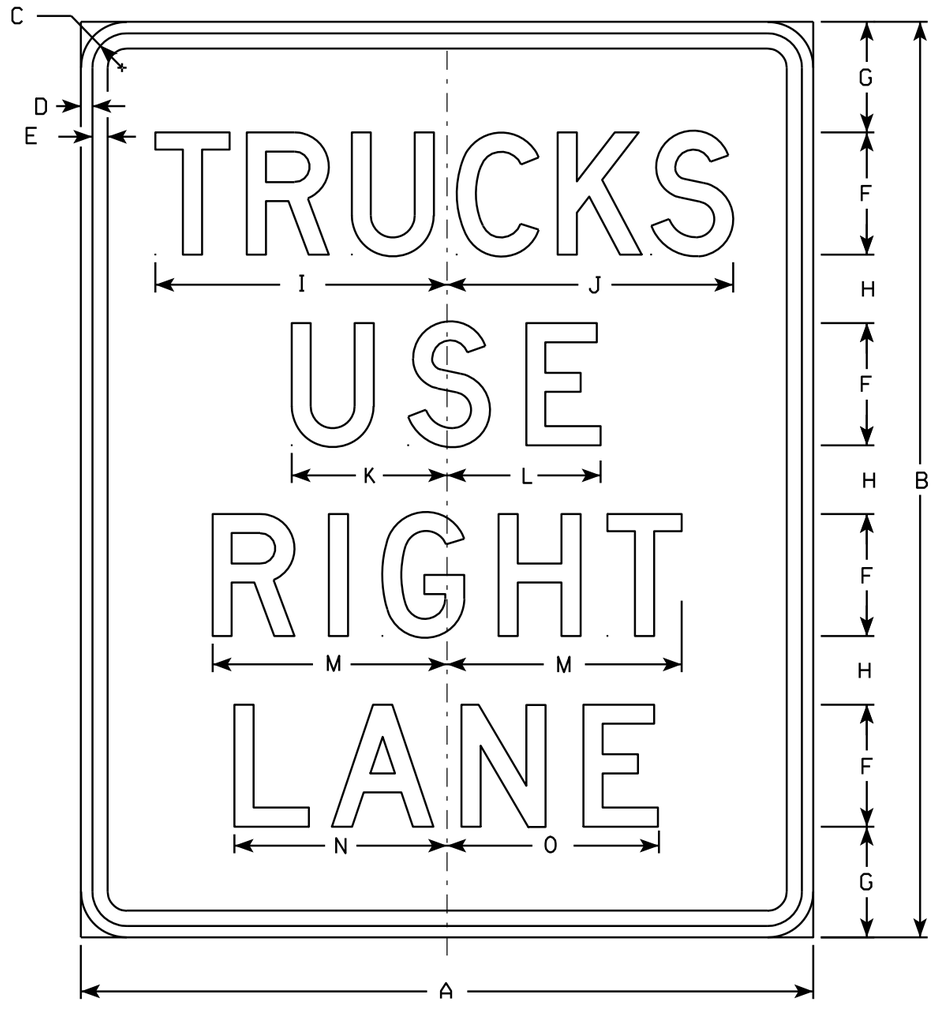
STANDARD SIGN
R3-53

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/24/2011 PLATE NO. R3-53.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 1088	E

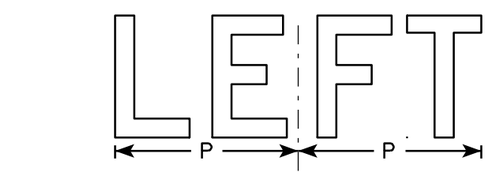


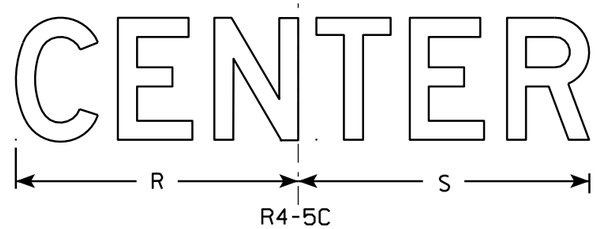
R4-5

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. R4-5L & R4-5C are the same as R4-5 except LEFT or CENTER replaces RIGHT as order by code.

R4-5L





R4-5C

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	30	1 1/8	3/8	1/2	4	3 5/8	2 1/4	9 5/8	9 3/8	5 1/8	5 1/8	7 3/4	7 1/4	7	6		9 1/4	9 1/2								5.0
2M	24	30	1 1/8	3/8	1/2	4	3 5/8	2 1/4	9 5/8	9 3/8	5 1/8	5 1/8	7 3/4	7 1/4	7	6		9 1/4	9 1/2								5.0
3																											
4	36	48	2 1/4	5/8	3/4	6	6	4	14 3/8	14 1/8	7 7/8	7 7/8	12 1/4	10 3/4	10 1/2	9 5/8		13 7/8	14 1/4								12.0
5	48	60	2 1/4	3/4	1	8	7 1/4	4 1/2	19 1/8	18 3/4	10 1/4	10 1/8	15 3/8	14	13 7/8	12		18 1/2	19 1/8								20.0

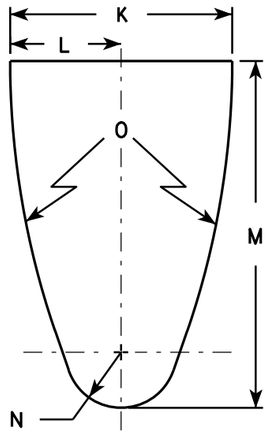
STANDARD SIGN
R4-5

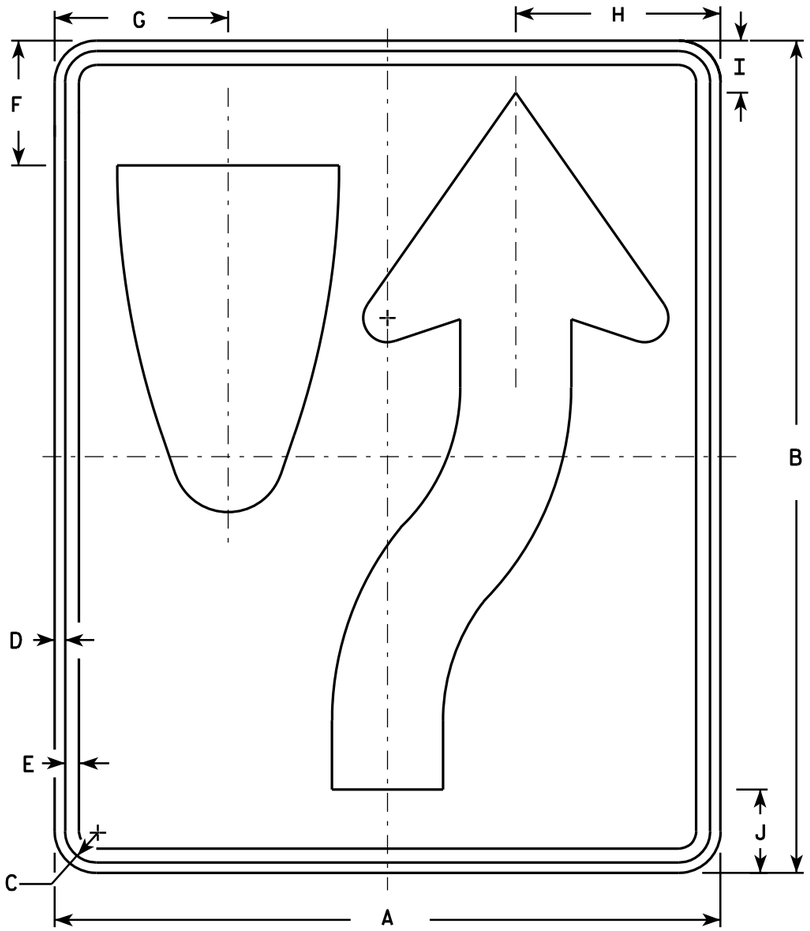
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-5.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 1089 | E

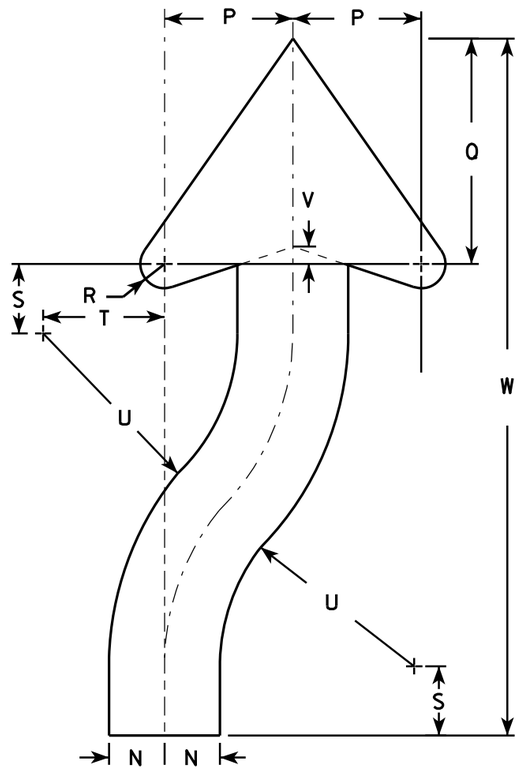




R4-7

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. material is plywood but borders shall be rounded
2. Color:
   Background - White
   Message - Black
3. Corners may be square or rounded when base as shown. When base material is metal, the corners and borders shall be rounded.
4. R4-8 is the same as R4-7 except Legend is reversed.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3 3/8	4 3/4	5 1/2	1 3/8	2 1/4	6	3	9 3/8	1 1/2	22 1/2	3 1/2	6 1/8	5/8	1 7/8	3 1/4	6 3/4	1/2	20 3/8				3.0
2S	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
2M	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
3	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
4	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
5	48	60	2 1/4	3/4	1	9	12 1/2	14 3/4	3 3/4	6	16	8	25	4	60	9 1/4	16 1/4	1 5/8	5	8 3/4	18	1 1/4	50 1/4				20.0

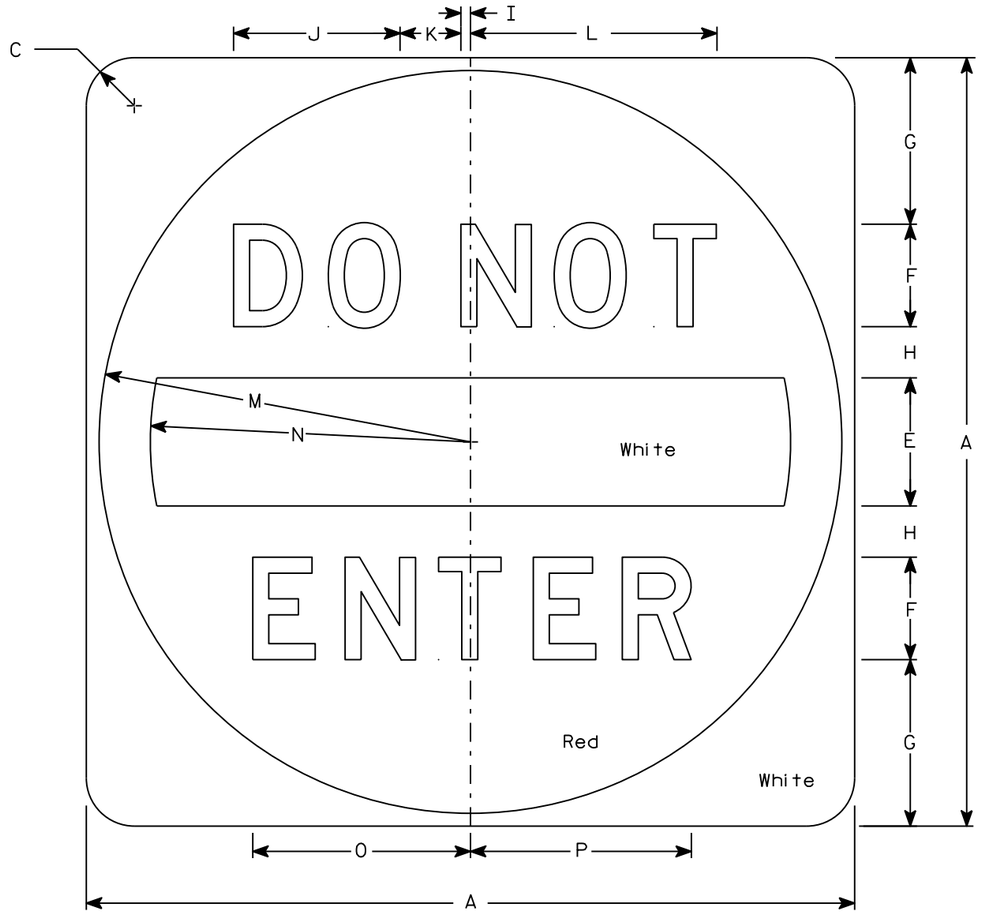
STANDARD SIGN
R4-7 & R4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-7.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 1090	E



R5-1

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - See detail
   Message - White
3. Message Series - D

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30		1 7/8		5	4	6 1/2	2	3/8	6 1/2	2 3/8	9 5/8	14 1/2	12 1/2	8 1/2	8 5/8											6.25
2M	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
3	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
4	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
5	48		3		8	6	11	3	5/8	9 3/4	3 5/8	14 1/2	23 1/2	20	12 3/4	12 7/8											16.0

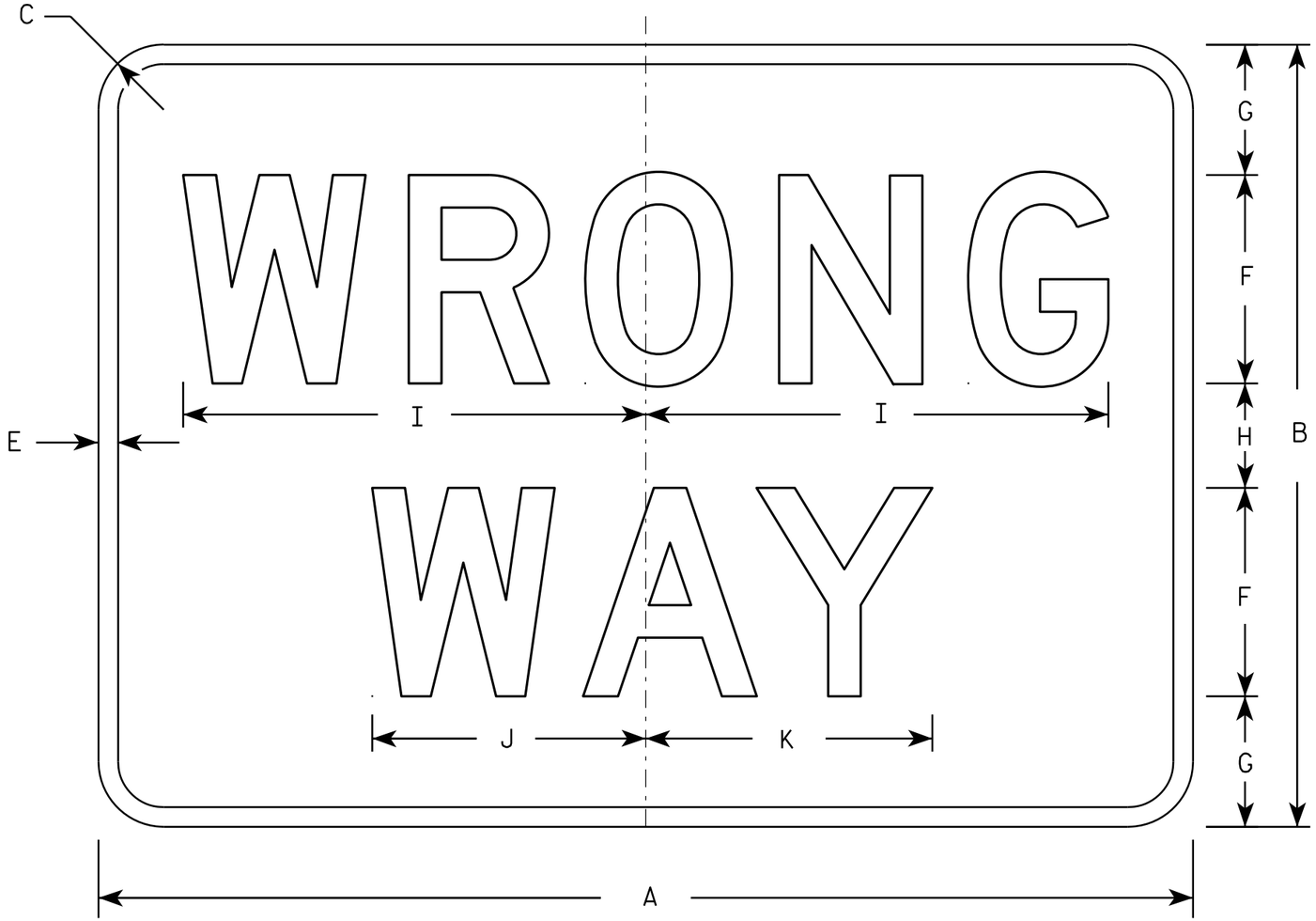
STANDARD SIGN
R5-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/15/18 PLATE NO. R5-1.16

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 1091 | E



R5-1A

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30	18	1 1/2		1/2	5	3	2	11	6 1/2	6 7/8																3.75
2S	36	24	2		5/8	6	4 1/2	3	13 1/4	7 7/8	8 1/4																6.00
2M	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
3	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
4	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
5	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75

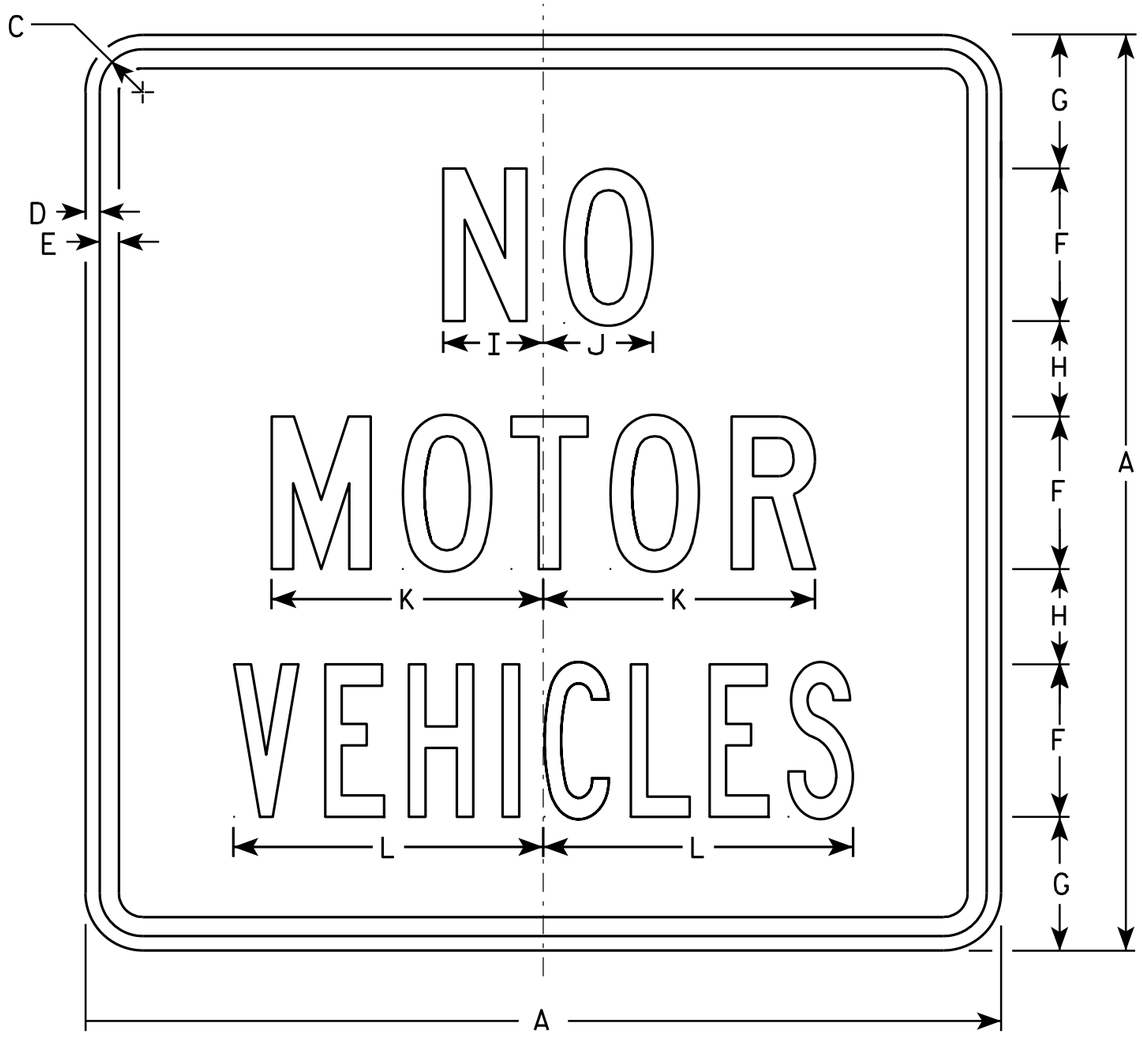
STANDARD SIGN
R5-1A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/17/10 PLATE NO. R5-1A.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 1092	E



R5-3

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - See Note 5.
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1 & 2 are Series C.
   Line 3 is Series B.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24		1 1/8	3/8	1/2	4	3 1/2	2 1/2	2 5/8	2 7/8	7 1/8	8 1/8															4.0
2M	24		1 1/8	3/8	1/2	4	3 1/2	2 1/2	2 5/8	2 7/8	7 1/8	8 1/8															4.0
3																											
4																											
5																											

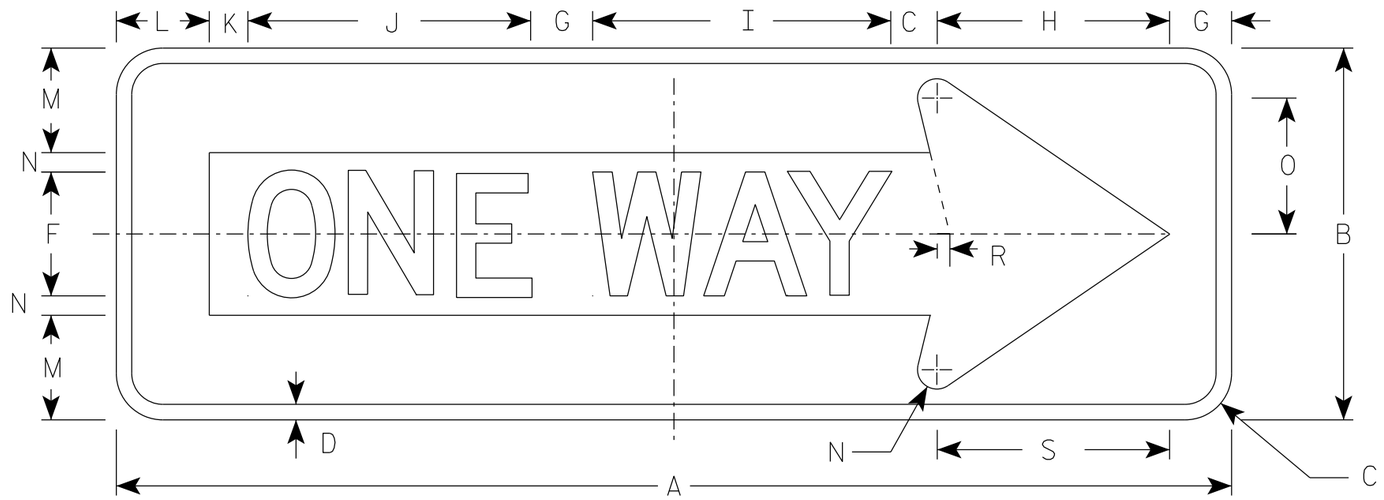
STANDARD SIGN
R5-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/29/2011 PLATE NO. R5-3.2

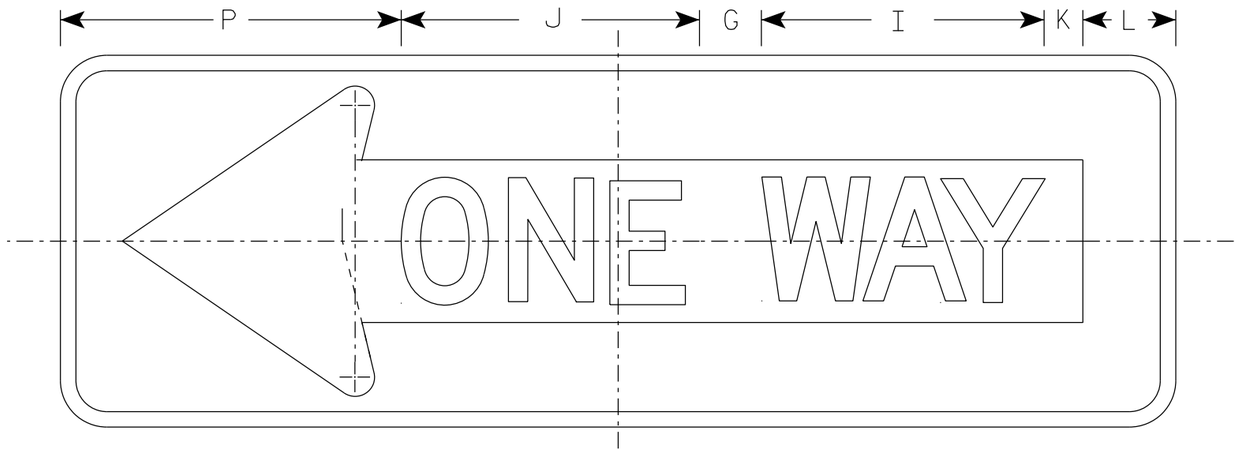
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 1093 | E



R6-1R

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - BLACK
   Message - BLACK LEGEND & WHITE ARROW & BORDER
3. Message Series - D



R6-1L

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36	12	1 1/2	1/2		4	2	7 1/2	9 5/8	9 1/8	1 1/4	3	3 3/8	5/8	4 3/8	11		3/8	7 1/2								3.0
2M	54	18	2 1/4	3/4		6	3	11 1/4	13 5/8	14 1/2	1 7/8	4 1/2	5	1	6 1/2	16 1/2		5/8	11 1/4								6.75
3	54	18	2 1/4	3/4		6	3	11 1/4	13 5/8	14 1/2	1 7/8	4 1/2	5	1	6 1/2	16 1/2		5/8	11 1/4								6.75
4	54	18	2 1/4	3/4		6	3	11 1/4	13 5/8	14 1/2	1 7/8	4 1/2	5	1	6 1/2	16 1/2		5/8	11 1/4								6.75
5																											

STANDARD SIGN
R6-1 L & R

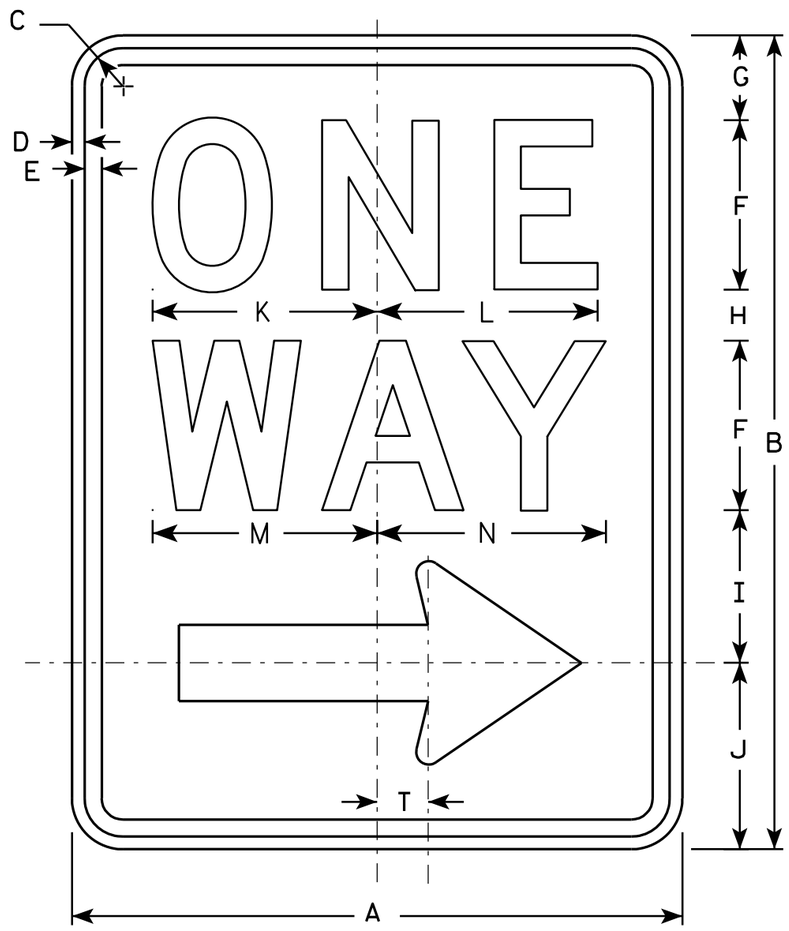
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 07/11/18 PLATE NO. R6-1.3

PROJECT NO:

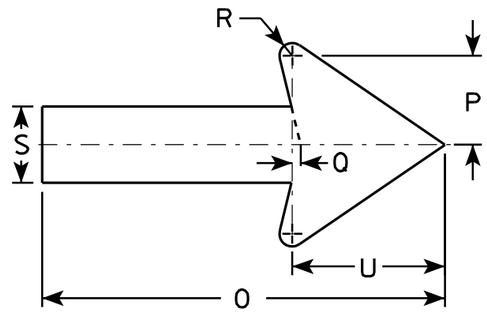
SHEET NO: 1094 E



R6-2R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. R6-2L same as R6-2R except arrow points to the left.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1	18	24	1 1/8	3/8	1/2	5	2 1/2	1 1/2	4 1/2	5 1/2	6 5/8	6 1/2	6 5/8	6 3/4	11 7/8	2 5/8	1/4	3/8	2 1/4	1 1/2	4 1/2					
2S	24	30	1 1/8	3/8	1/2	6	3	2 1/2	5 1/2	7	8 1/8	8 1/8	8 1/2	8 5/8	16	3 1/2	3/8	1/2	3	2	6					
2M	30	36	1 3/8	1/2	5/8	8	2 1/2	2 5/8	6 7/8	8	10 1/2	10 1/2	11 1/4	11 1/4	20	4 3/8	1/2	5/8	3 3/4	2 1/2	7 1/2					
3	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
4	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
5																										

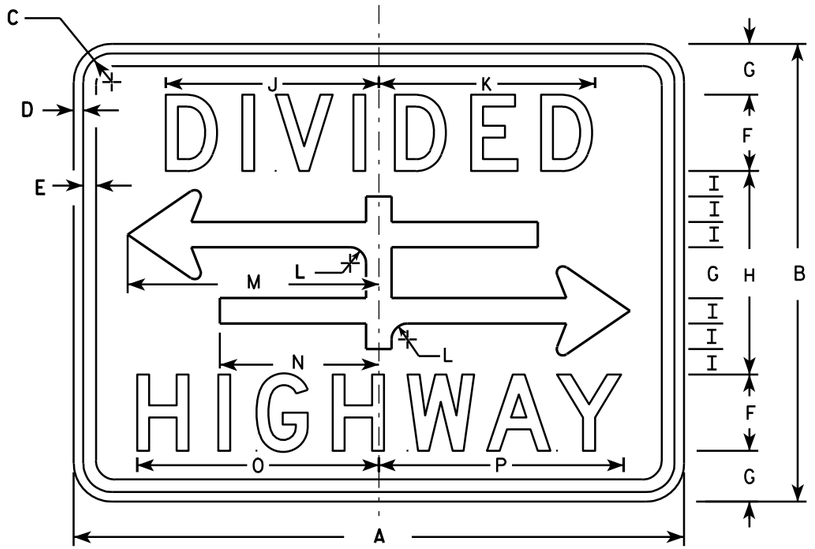
STANDARD SIGN
R6-2 R&L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/2/10 PLATE NO. R6-2.8

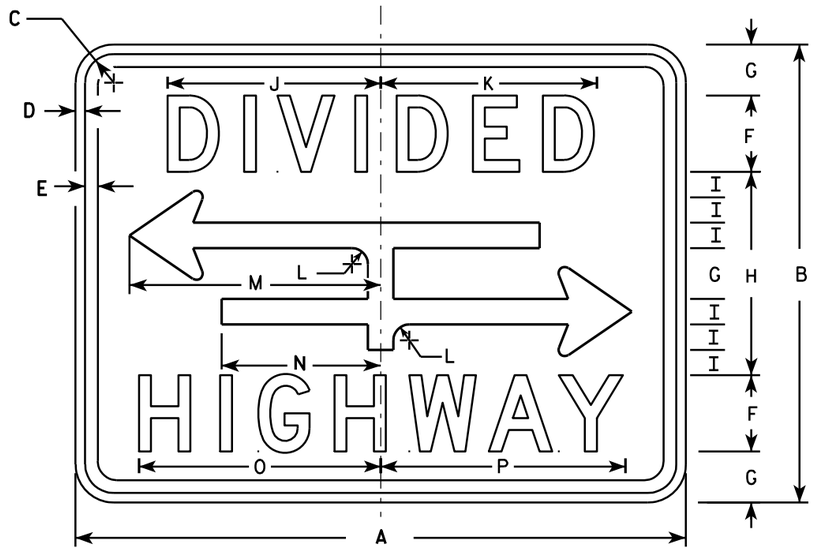
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 1095	E



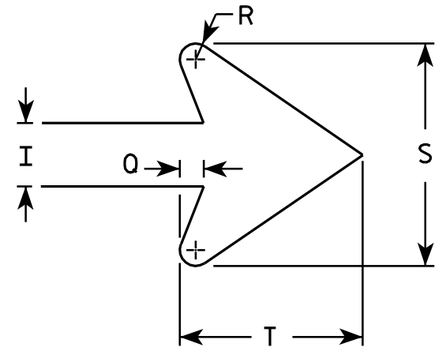
R6-3

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



R6-3A



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24	18	1 1/8	3/8	3/8	3	2	8	1	8 3/8	8 1/2	5/8	9 7/8	6 1/4	9 1/2	9 5/8	3/8	1/4	3 1/2	2 3/4							3.0
2S	30	24	1 1/8	3/8	1/2	4	2 5/8	10 3/4	1 3/8	10 1/2	10 5/8	7/8	12 1/2	7 7/8	12 1/4	12 3/8	1/2	3/8	4 5/8	3 5/8							5.0
2M	30	24	1 1/8	3/8	1/2	4	2 5/8	10 3/4	1 3/8	10 1/2	10 5/8	7/8	12 1/2	7 7/8	12 1/4	12 3/8	1/2	3/8	4 5/8	3 5/8							5.0
3																											
4																											
5																											

STANDARD SIGN
R6-3 & R6-3A

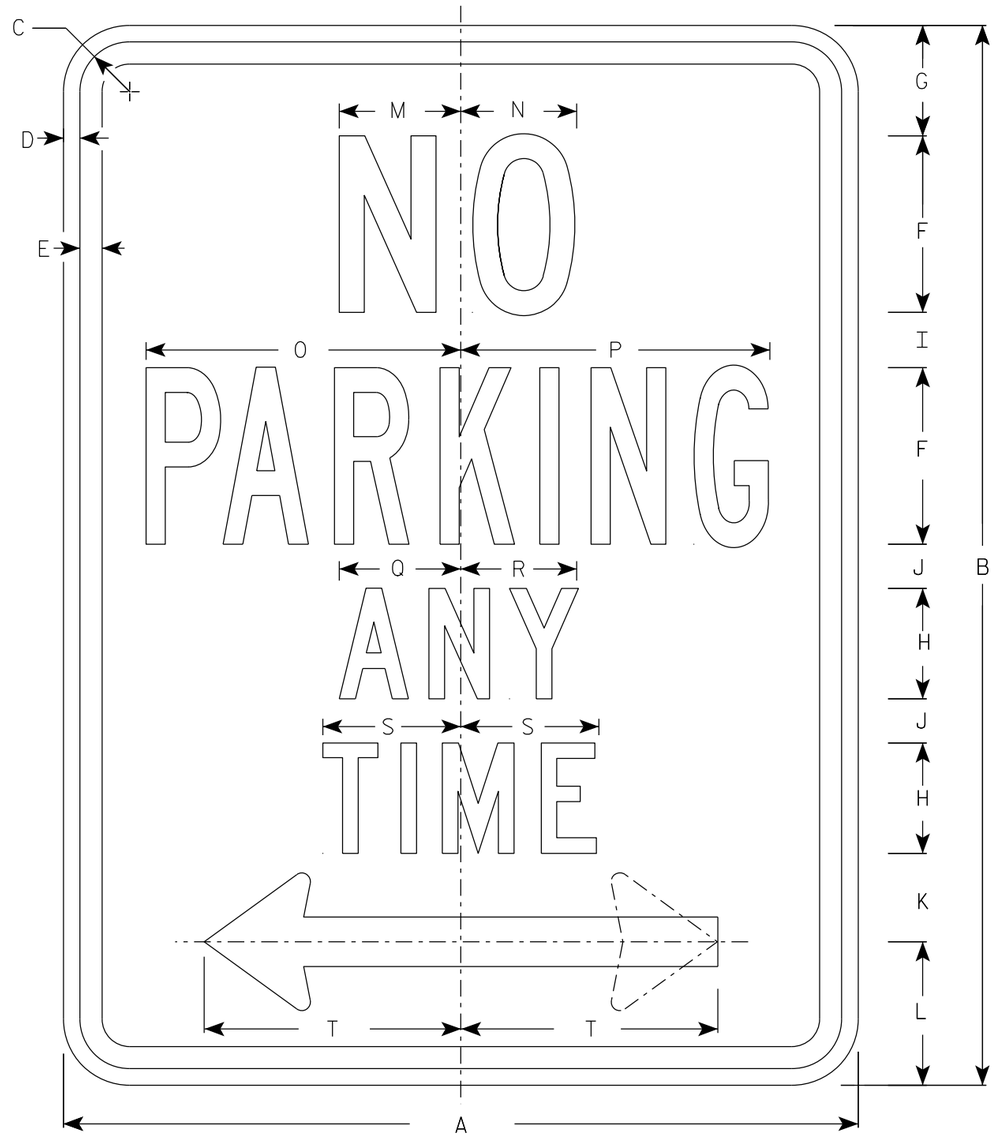
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R6-3.5

PROJECT NO:

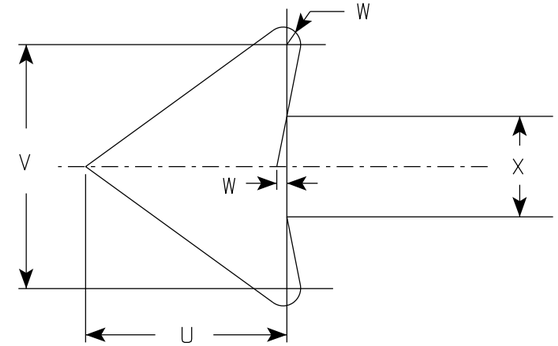
SHEET NO: 1096 E



R7-1

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Red
3. Message Series - See Note 5
4. Lines 1, 3 and 4 are series C, line 2 is series B.
5. R7-1D (double arrow)
   R7-1L (left arrow)
   R7-1R (right arrow)



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12	18	1 1/8	3/8	3/8	3	1 7/8	2	7/8	5/8	1 1/2	2 1/2	2	2	4 7/8	4 7/8	2 1/4	2 1/8	2 1/2	3 7/8	1 1/2	1 3/4	1/8	3/4			1.5
2S	18	24	1 1/8	3/8	1/2	4	2 1/2	2 1/2	1 1/4	1	2	3 1/4	2 3/4	2 5/8	7 1/8	7	2 3/4	2 5/8	3 1/8	5 7/8	2 1/4	2 5/8	1/4	1 1/8			3.0
2M	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
3	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
4																											
5																											

STANDARD SIGN
R7-1

WISCONSIN DEPT OF TRANSPORTATION

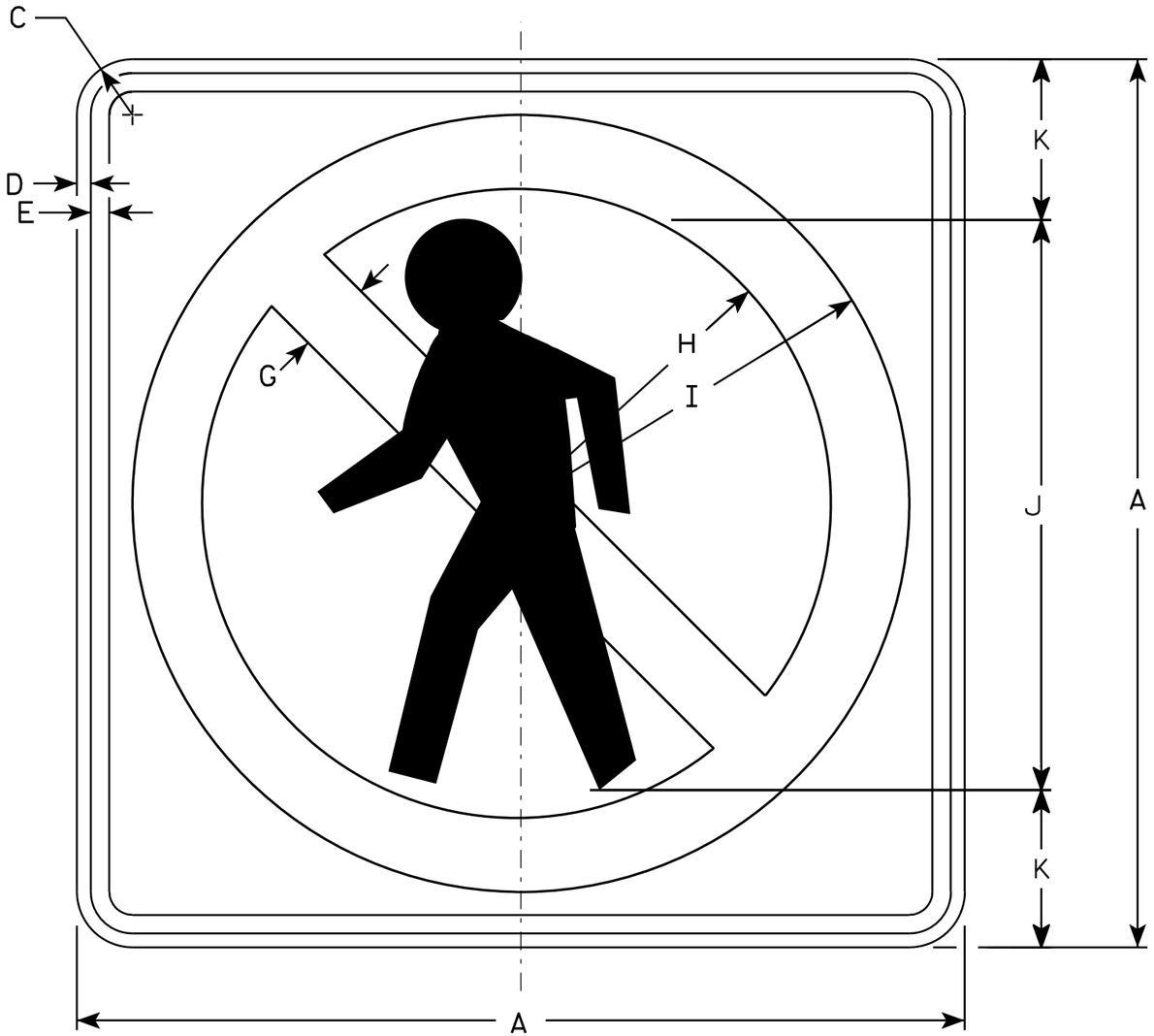
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2021 PLATE NO. R7-1.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 1097 E

7

7



R9-3A

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Border & Pedistrian are non-reflective black. Circle with diagonal bar is reflective red.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	18		1 1/8	3/8	3/8		1 1/2	6 1/4	7 7/8	12	3																2.25
2M	18		1 1/8	3/8	3/8		1 1/2	6 1/4	7 7/8	12	3																2.25
3																											
4	24		1 1/8	3/8	1/2		2	8 1/2	10 1/2	15	4																4.00
5																											

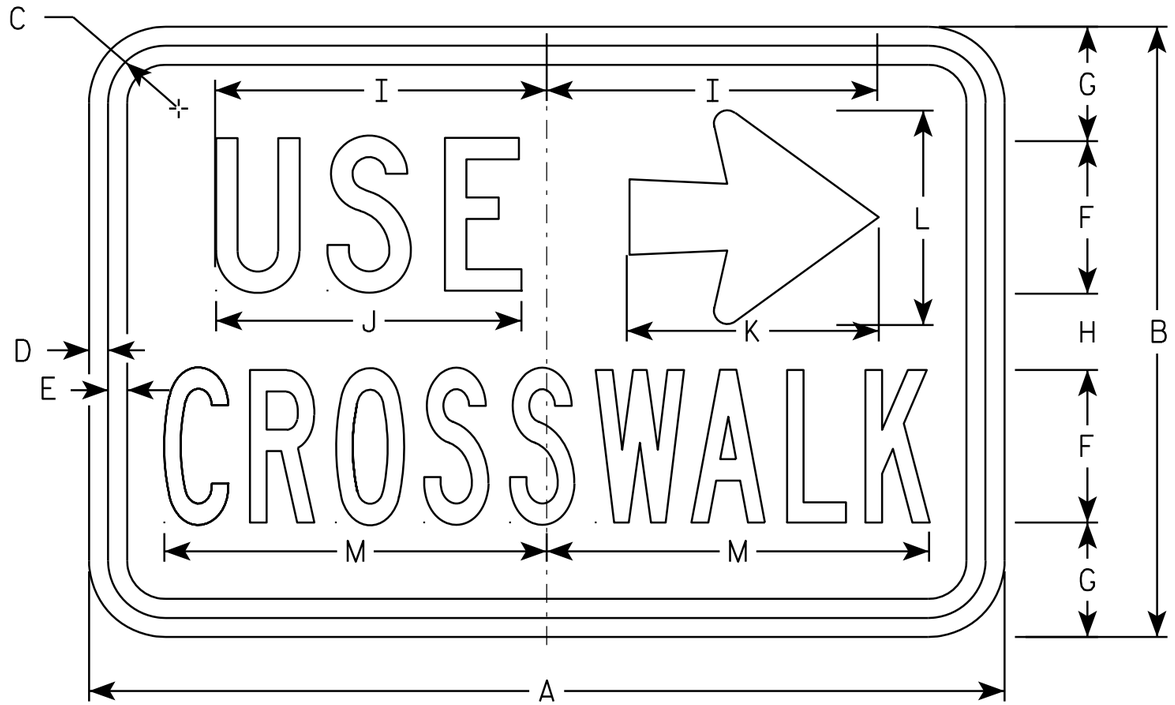
STANDARD SIGN
R9-3A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/4/10 PLATE NO. R9-3A.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 1098 | E



R9-3BR

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - C Line 1, Series B Line 2
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. R9-3BL is the same as R9-3BR except USE and the arrow are switched.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	18	12	1 1/8	3/8	3/8	3	2 1/4	1 1/2	6 1/2	6	5	4 1/4	7 1/2														1.5
2M	18	12	1 1/8	3/8	3/8	3	2 1/4	1 1/2	6 1/2	6	5	4 1/4	7 1/2														1.5
3																											
4																											
5																											

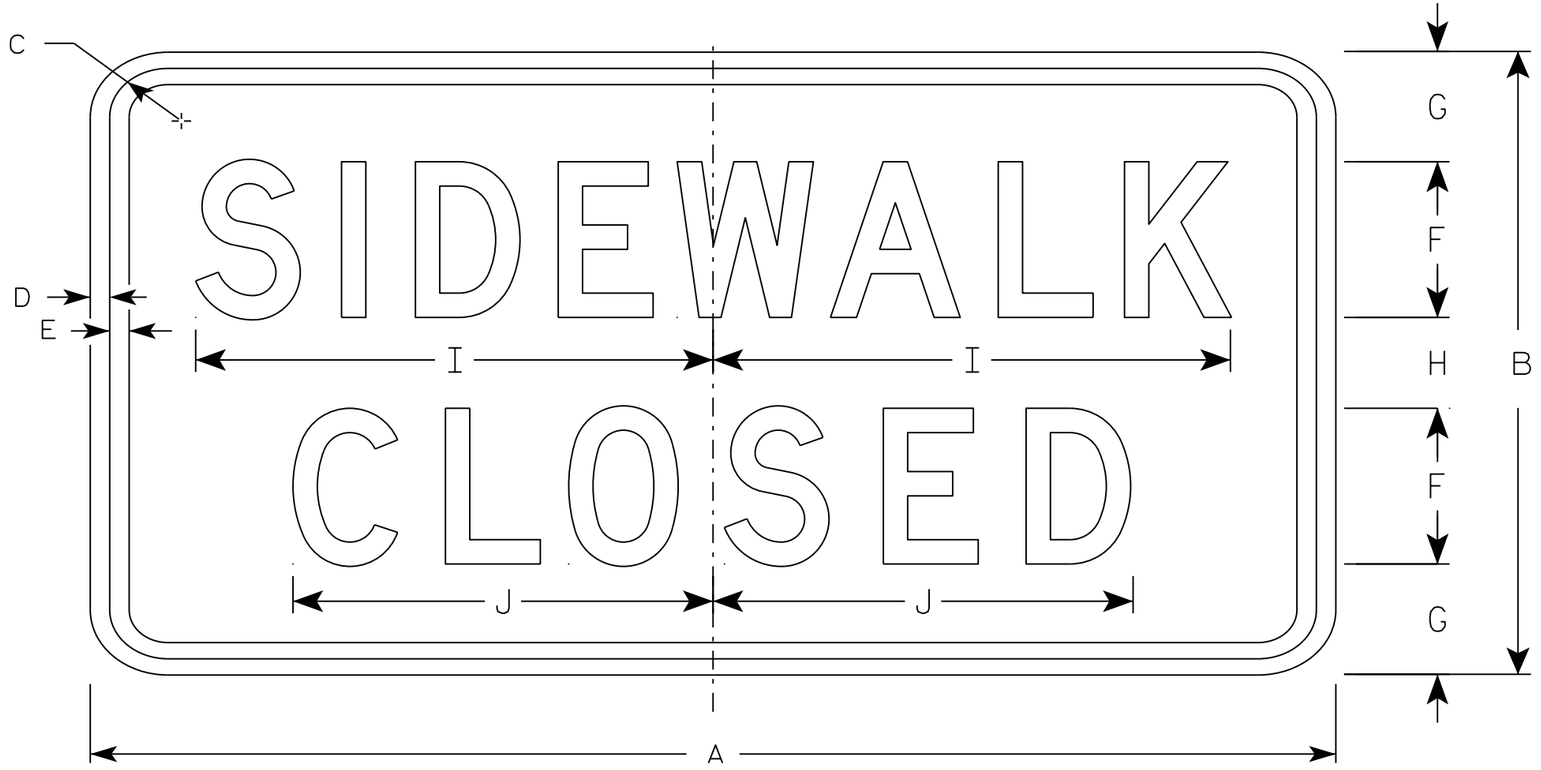
STANDARD SIGN
R9-3BR&L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/4/10 PLATE NO. R9-3B.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 1099 | E



R9-9

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Use Size 2 for Sidewalks. Use Size 3 for Paths and Trails.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 3/4	1/2	1/2	3	2 1/8	1 3/4	10	8 1/8																	2.0
2M	24	12	1 3/4	1/2	1/2	3	2 1/8	1 3/4	10	8 1/8																	2.0
3	30	18	1 3/4	1/2	1/2	4	3 1/2	3	12 1/2	10 1/4																	3.75
4																											
5																											

STANDARD SIGN
R9-9

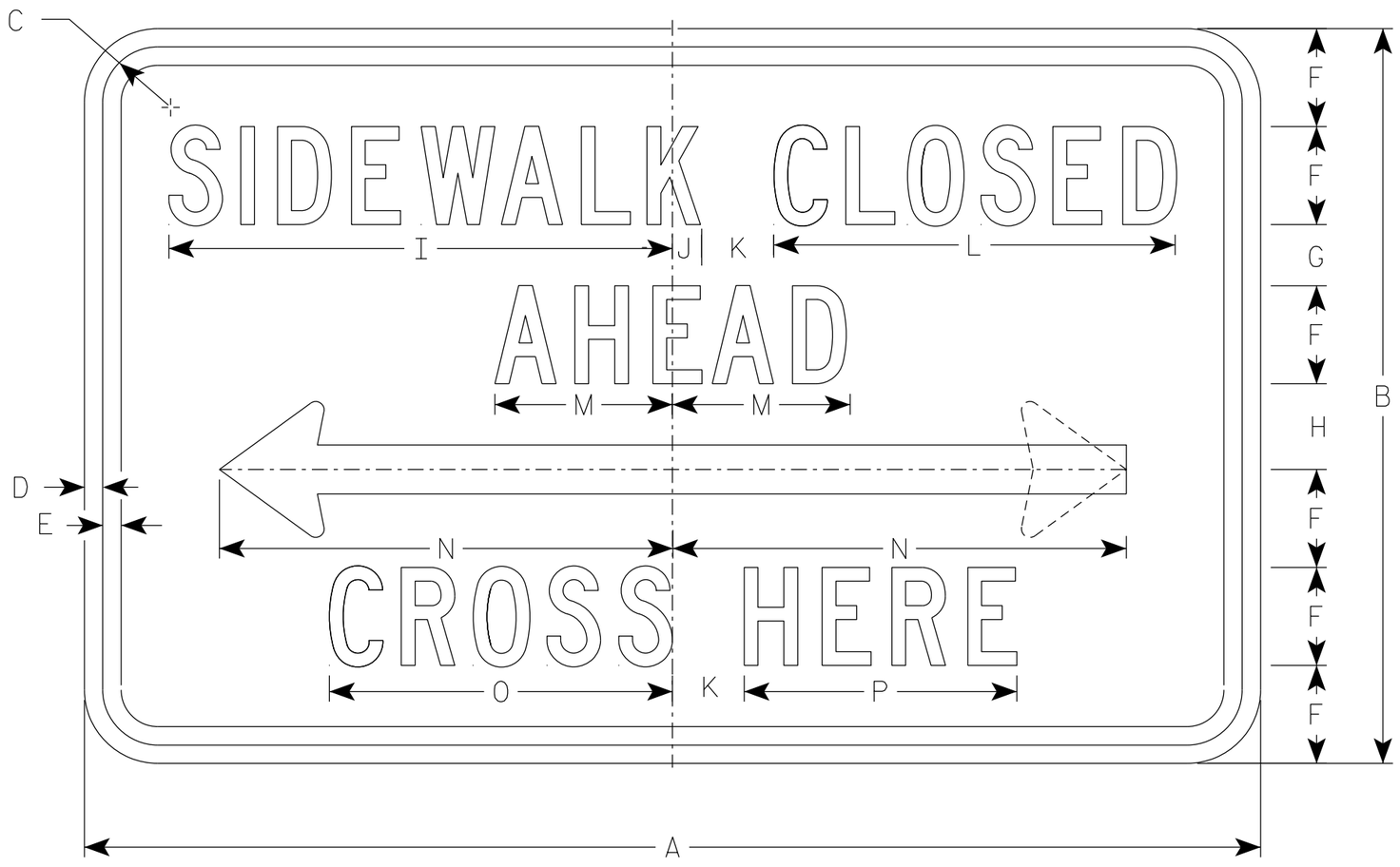
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

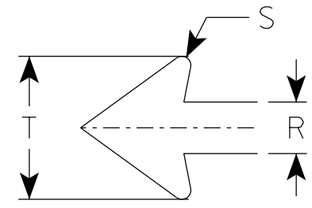
DATE 8/11/16 PLATE 1100 R9-9.6

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R99.DGN PLOT DATE : 11-AUG-2016 11:33 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 2.918761:1.000000



R9-11



NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - C except Size 1 is Series D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Use Size 2 for Sidewalks. Use Size 3 for Paths and Trails.
6. R9-11 D (double arrow)
   R9-11 L (left arrow)
   R9-11 R (right arrow)

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 1/8	3/8	3/8	1 1/2	1 1/2	1 1/2	9 3/4	5/8	1 1/2	7 5/8	3 1/2	9 1/4	6 5/8	5 1/8		1	1/8	2 3/4							2.0
2M	24	12	1 1/8	3/8	3/8	1 1/2	1 1/2	1 1/2	9 3/4	5/8	1 1/2	7 5/8	3 1/2	9 1/4	6 5/8	5 1/8		1	1/8	2 3/4							2.0
3	30	15	1 1/8	3/8	1/2	2	1 1/2	1 1/2	13	3/4	2	10 1/4	4 5/8	12 3/8	8 7/8	6 7/8		1 1/4	1/4	3 5/8							3.125
4																											
5																											

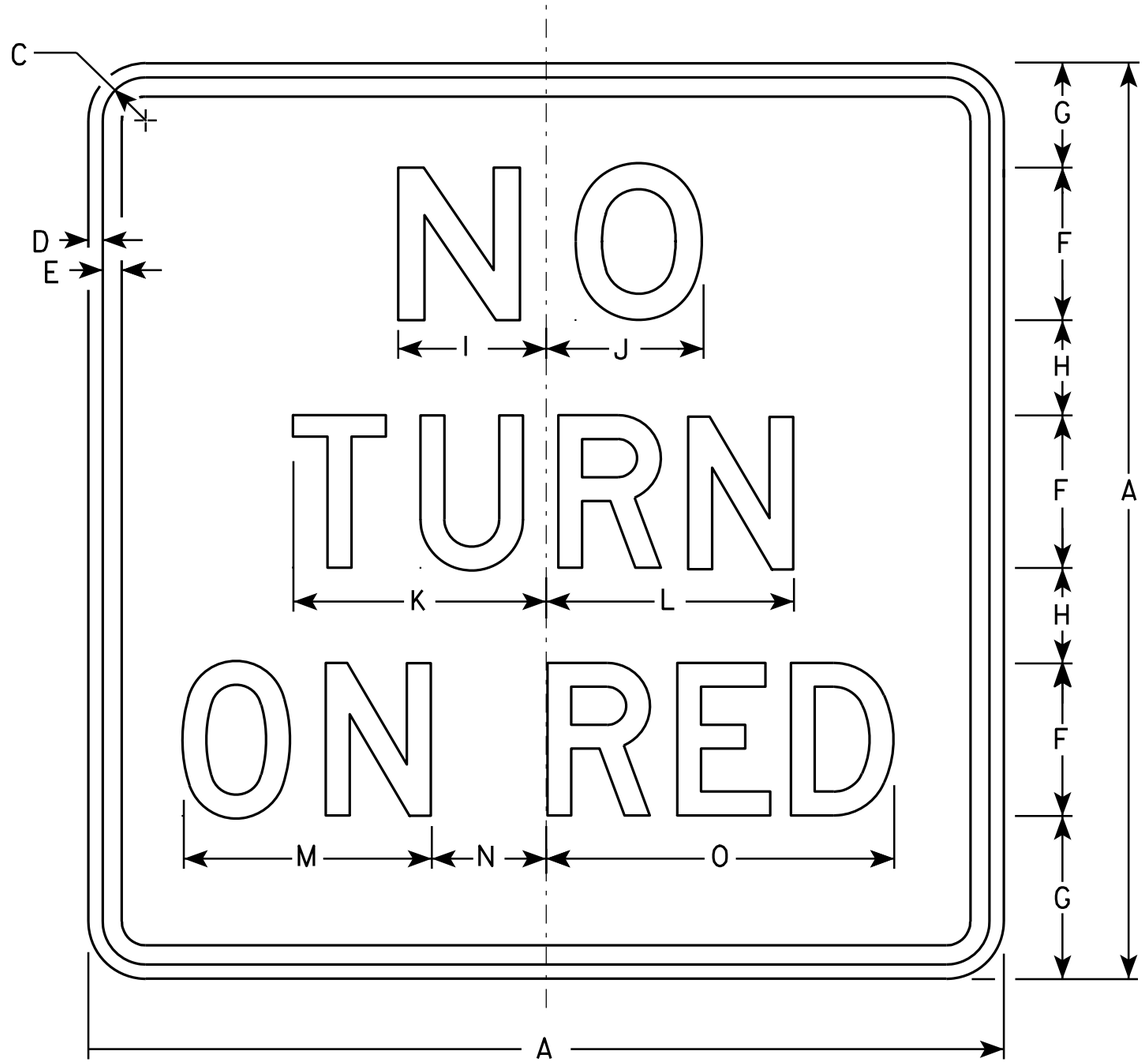
STANDARD SIGN
R9-11

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 3/30/2021 PLATE NO. R9-11.4

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 1101 | E



R10-11B

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - See Note 5.
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Line 1 is Series E.
   Lines 2 and 3 are Series D.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18		1 1/8	3/8	3/8	3	2 3/4	1 3/4	3	3 1/8	5	4 7/8	5 1/4	1 7/8	7 1/8												2.25
2S	24		1 1/8	3/8	1/2	4	3 1/2	2 1/2	3 7/8	4 1/8	6 5/8	6 1/2	6 1/2	3	9 1/8												4.0
2M	24		1 1/8	3/8	1/2	4	3 1/2	2 1/2	3 7/8	4 1/8	6 5/8	6 1/2	6 1/2	3	9 1/8												4.0
3	30		1 3/8	1/2	5/8	5	4 1/2	3	4 7/8	5 1/4	8 1/4	8 1/8	7 3/4	4 1/8	11 7/8												6.25
4																											
5																											

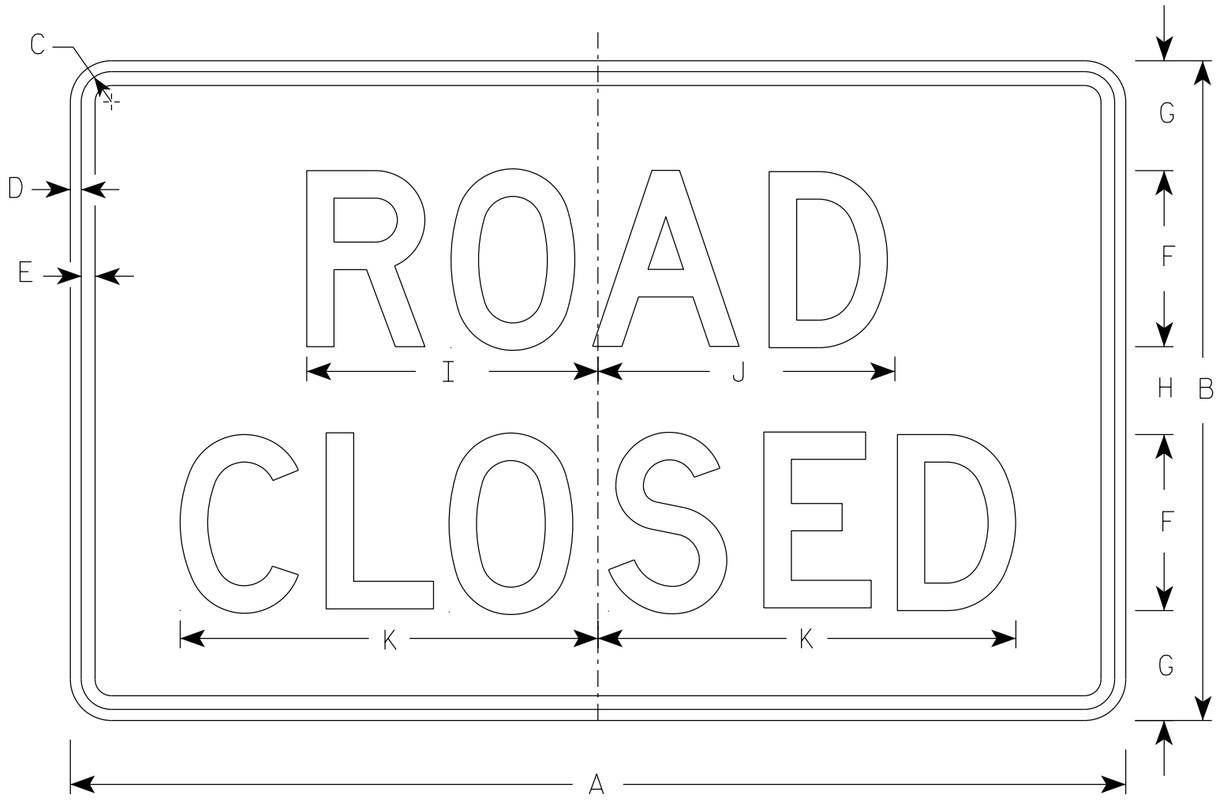
STANDARD SIGN
R10-11B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/5/11 PLATE NO. R10-11B.4

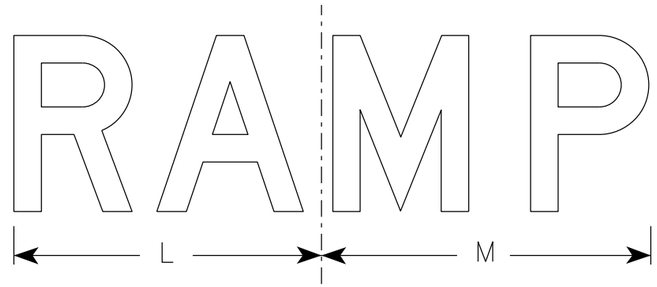
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 1102 | E



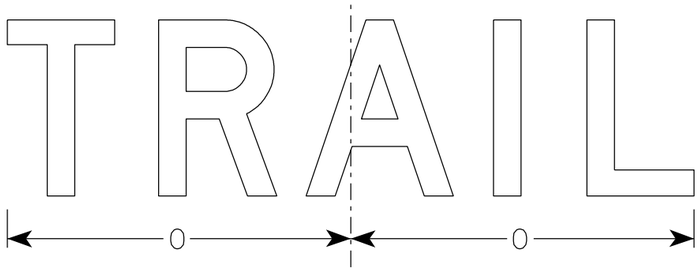
R11-2

NOTES

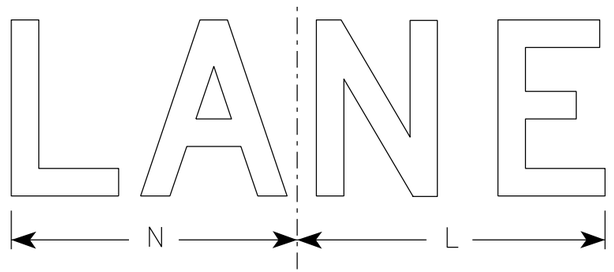
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Modify the message as required.



R11-2R



R11-2T



R11-2L

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
2M	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
3	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
4	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
5	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0

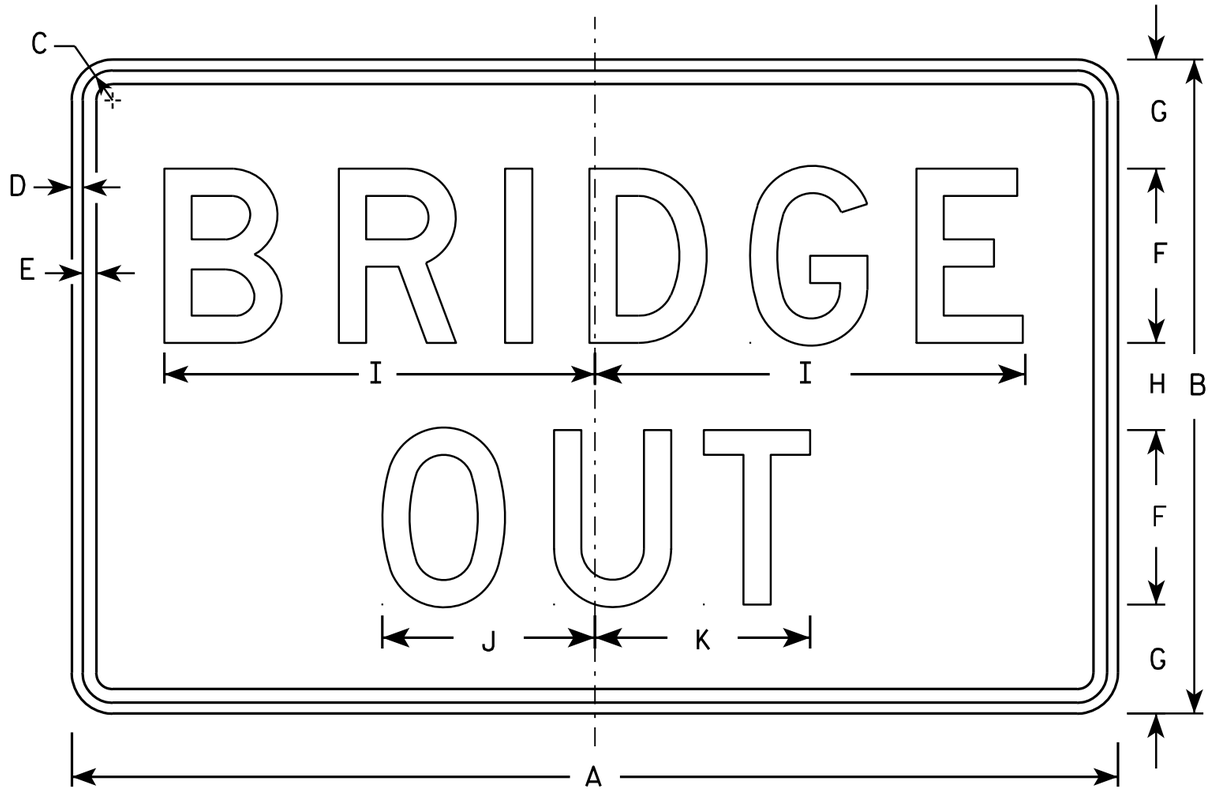
STANDARD SIGN
R11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/29/2021 PLATE NO. R11-2.11

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 1103	E



R11-2B

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	30	1 3/8	1/2	5/8	8	5	4	19 3/4	9 3/4	9 7/8																10.0
2M	48	30	1 3/8	1/2	5/8	8	5	4	19 3/4	9 3/4	9 7/8																10.0
3	48	30	1 3/8	1/2	5/8	8	5	4	19 3/4	9 3/4	9 7/8																10.0
4	48	30	1 3/8	1/2	5/8	8	5	4	19 3/4	9 3/4	9 7/8																10.0
5	48	30	1 3/8	1/2	5/8	8	5	4	19 3/4	9 3/4	9 7/8																10.0

STANDARD SIGN
R11-2B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-2B.2

PROJECT NO:

SHEET NO: 1104 E

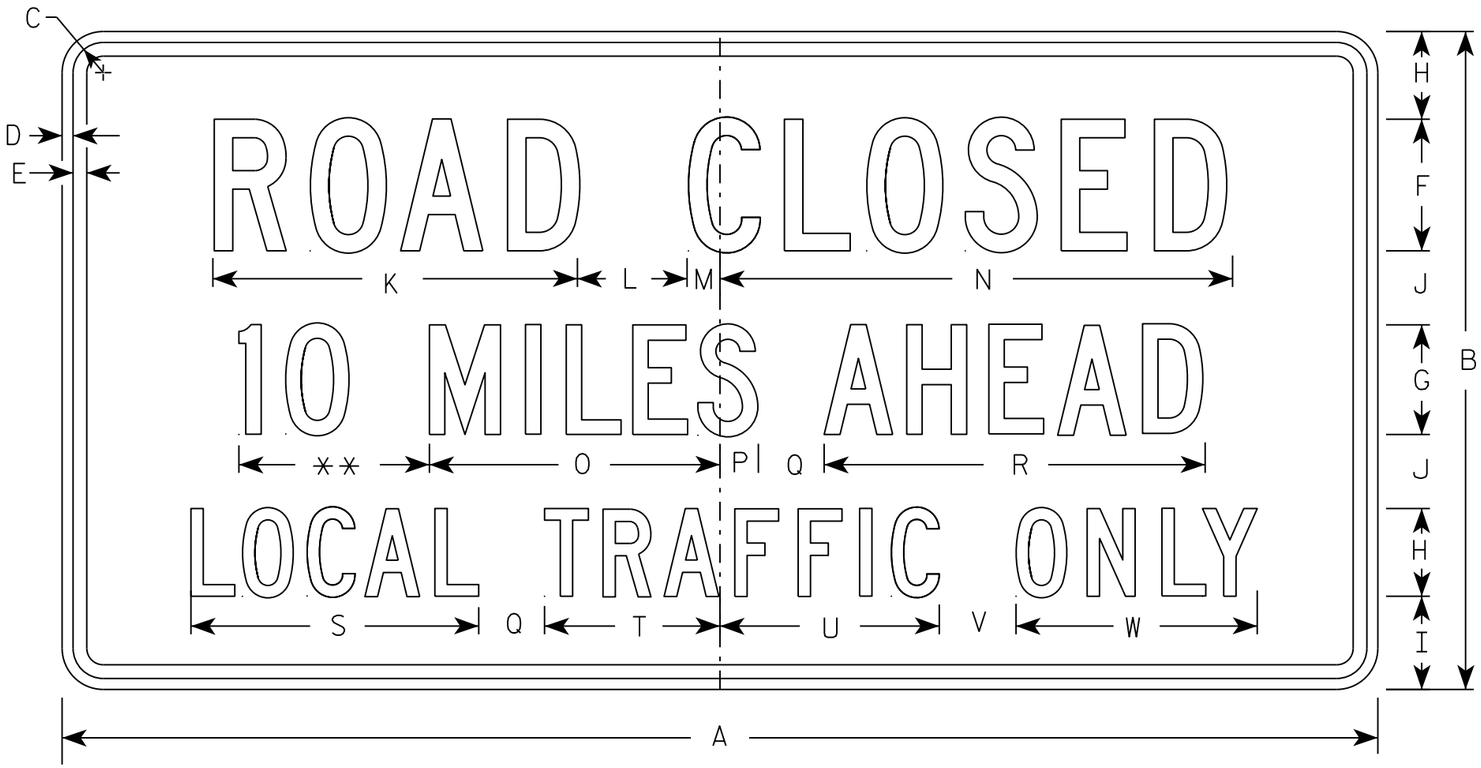
7

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R112B.DGN PLOT DATE : 01-APR-2011 14:23 PLOT BY : mscj9h

WISDOT/CADDS SHEET 42

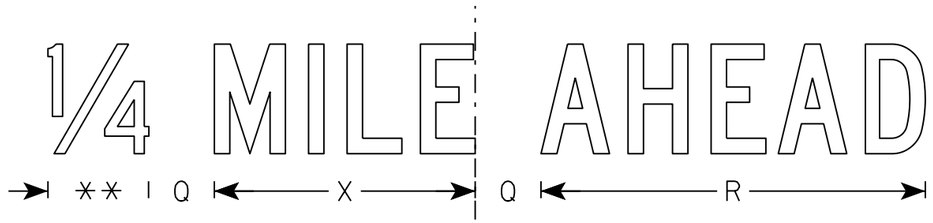
NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals to nearest quarter mile and optically adjust spacing to achieve proper balance.



R11-3

** See Note 5



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 3/8	1/2	5/8	4	3	2 1/2	2	2	11 1/8	3	1 1/8	15 1/4	8	1 1/2	2	10 3/4	8 3/8	4 3/4	6 1/2	2	6 3/4	7 1/8			4.5
2S	60	30	1 3/8	1/2	5/8	6	5	4	4 1/4	3 3/8	16 5/8	5	1 1/2	23	13 1/4	1 3/4	3	17 3/8	13 1/8	8	10	3 1/2	11	11 7/8			12.5
2M	60	30	1 3/8	1/2	5/8	6	5	4	4 1/4	3 3/8	16 5/8	5	1 1/2	23	13 1/4	1 3/4	3	17 3/8	13 1/8	8	10	3 1/2	11	11 7/8			12.5
3																											
4																											
5																											

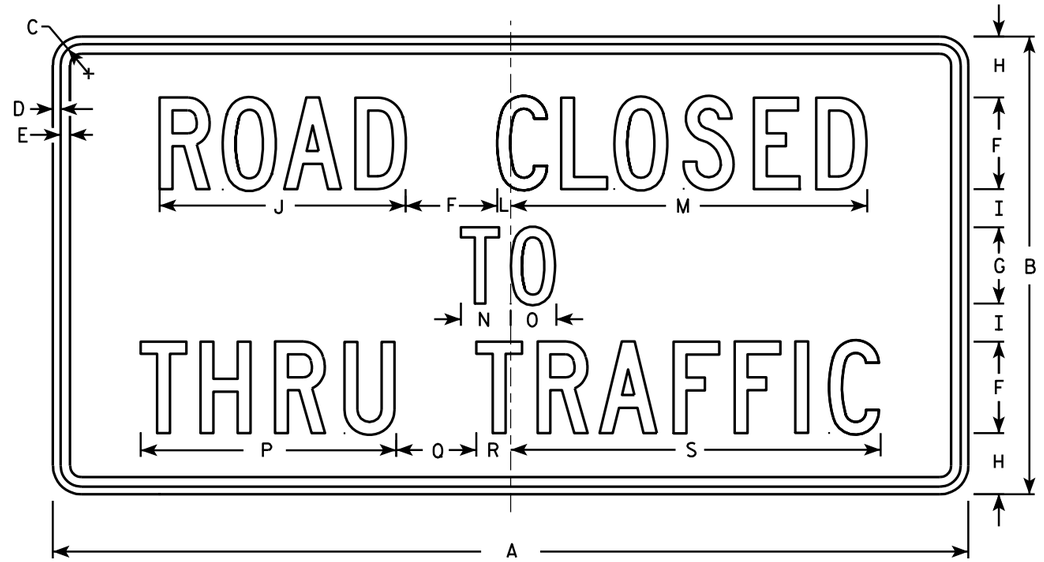
STANDARD SIGN
R11-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/15/17 PLATE NO. R11-3.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 1105	E



R11-4

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	60	30	1 3/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
2M	60	30	1 3/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
3																											
4																											
5																											

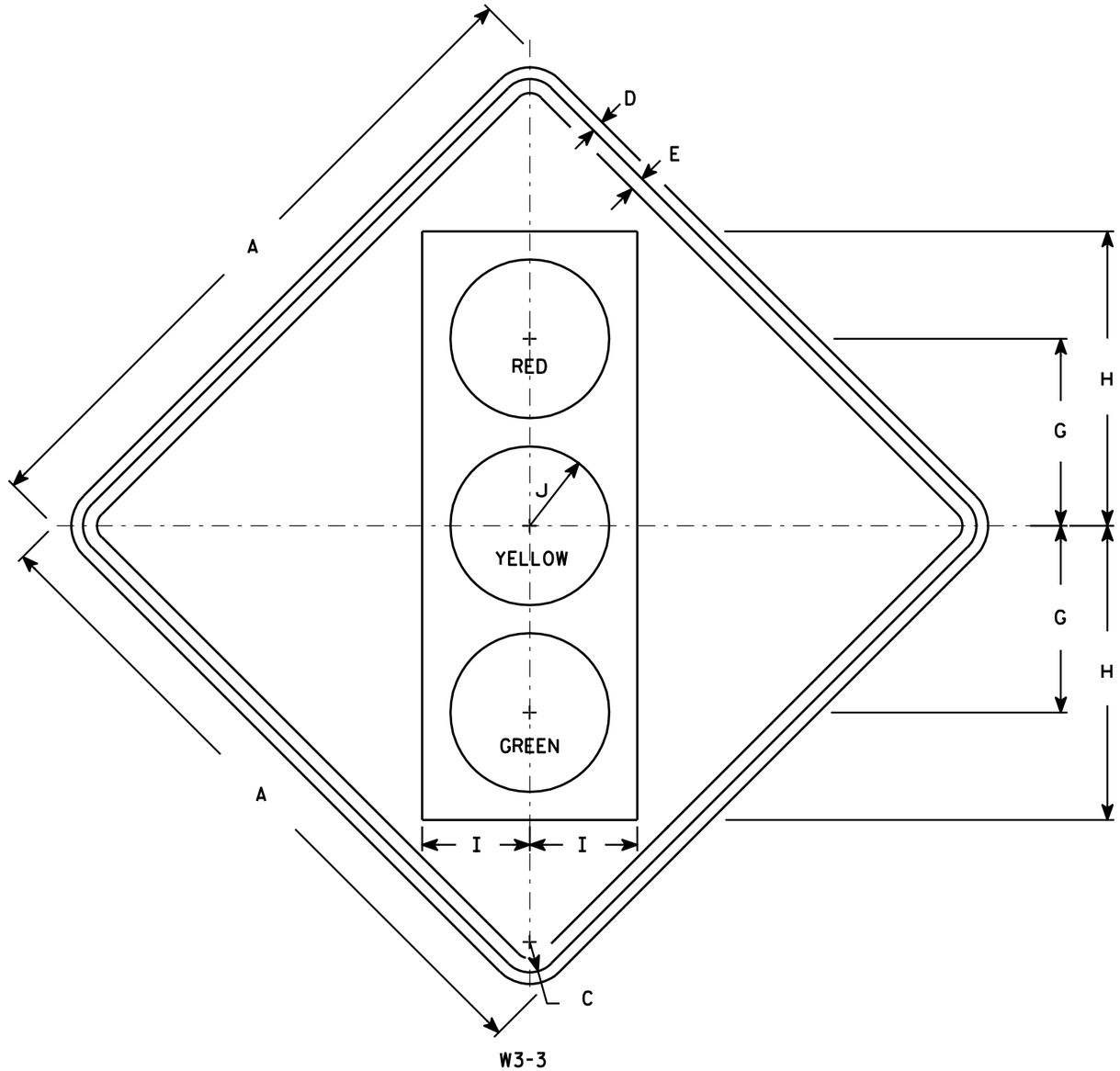
STANDARD SIGN
R11 - 4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-4.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 1106	E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Symbol and border are non-reflective black.
   Top circle - Type H Reflectorized Red
   Center circle - Same as background
   Bottom circle - Type H Reflectorized Green

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8		8 3/4	13 3/4	5	3 3/4																	6.25
2S	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
2M	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
3	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
4	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0
5	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0

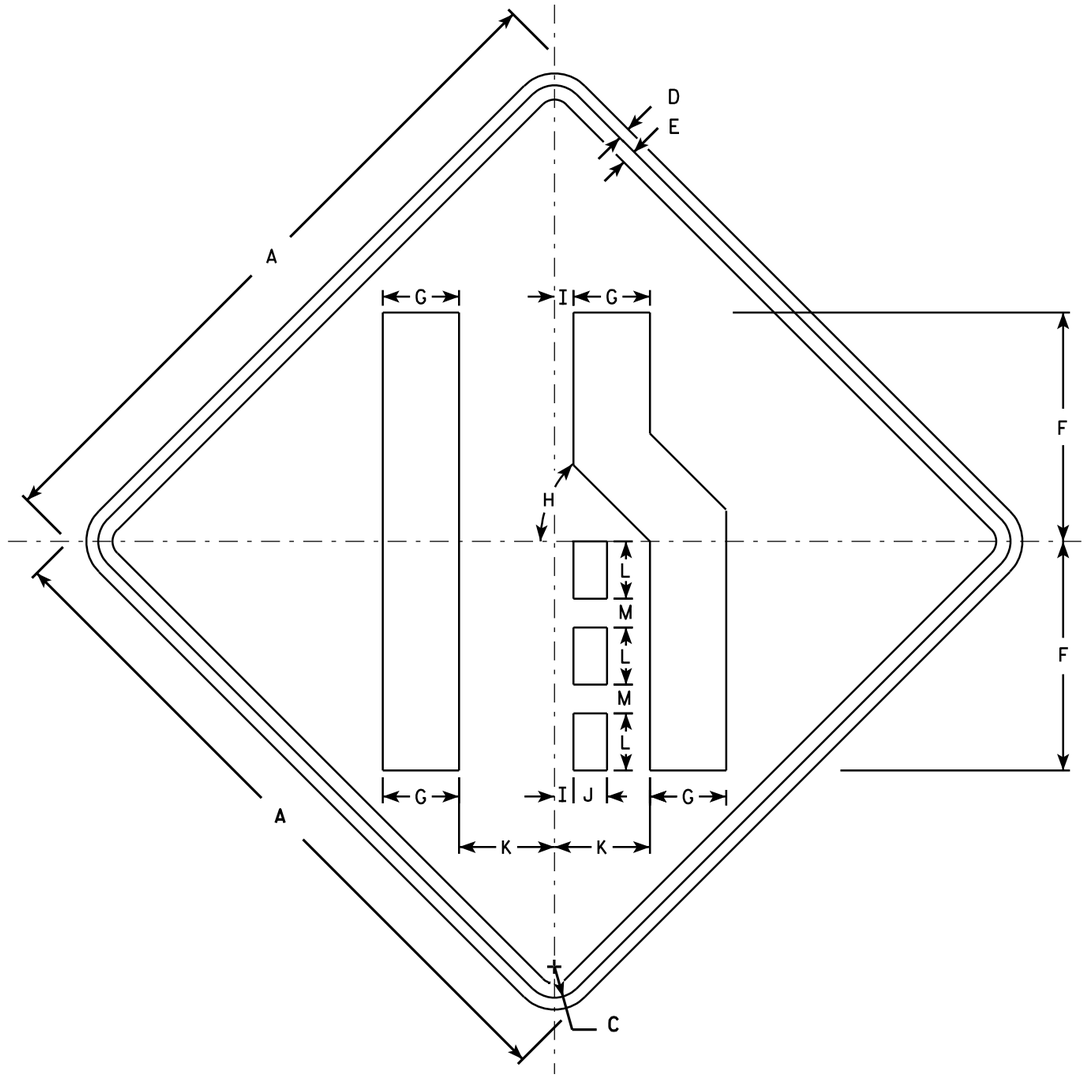
STANDARD SIGN
W3-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-3.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 1107 | E



W4-2R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W4-2L is the same as W4-2R except the symbol is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	10	3 3/8	45°	7/8	1 1/2	4 1/4	2 1/2	1 1/4														6.25
2S	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
2M	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
3	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
4	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
5	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0

STANDARD SIGN
W4-2

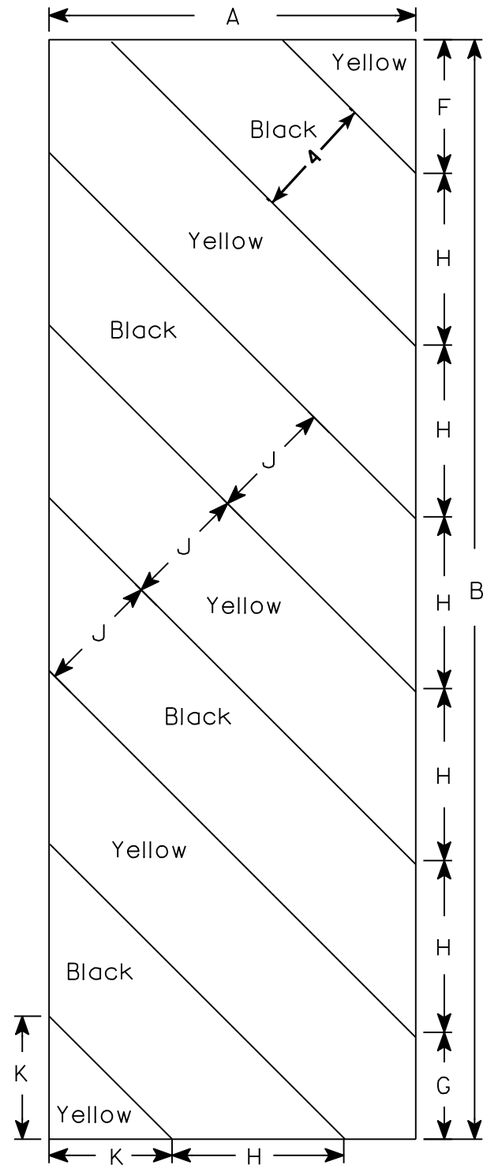
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

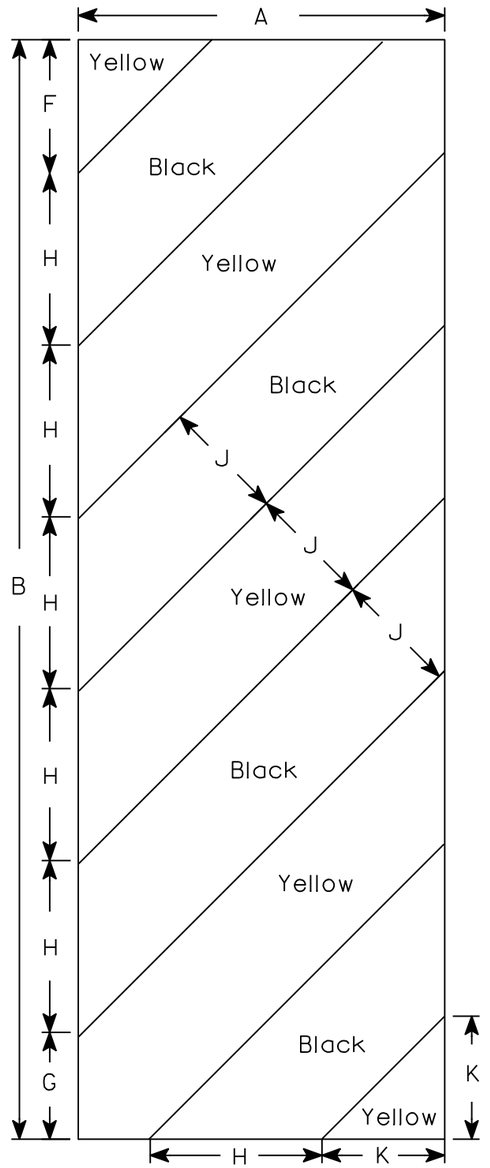
DATE 3/12/13 PLATE NO. W4-2.14

PROJECT NO:

SHEET NO: 1108 E



W5-52L



W5-52R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Alternate colors of stripes as shown.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
2M	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
3	18	54				6	5 1/2	8 1/2	45°	6	6 9/16																6.75
4																											
5																											

STANDARD SIGN

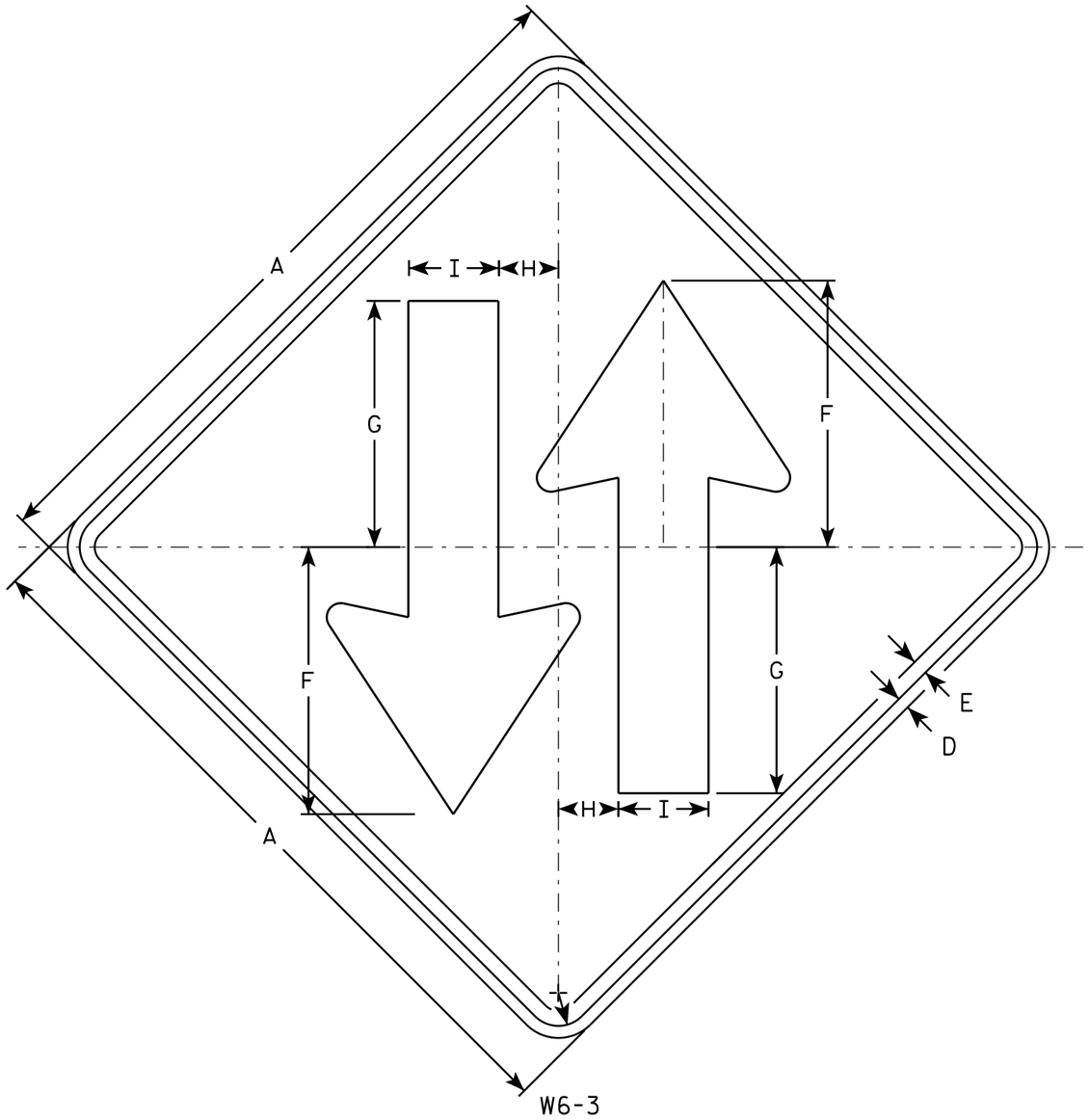
W5-52L & W5-52R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W5-52.9

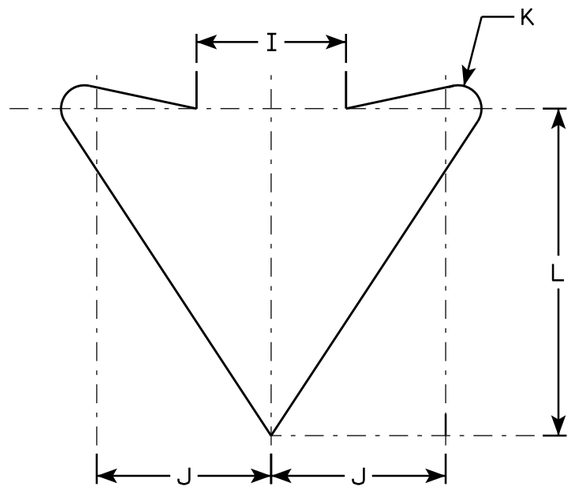
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 1109	E



W6-3

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	11 1/8	10 1/4	2 1/2	3 3/4	4 3/8	5/8	8 1/4															6.25
2S	36		1 5/8	5/8	3/4	13 3/8	12 1/4	3	4 1/2	5 1/4	3/4	9 7/8															9.0
2M	36		1 5/8	5/8	3/4	13 3/8	12 1/4	3	4 1/2	5 1/4	3/4	9 7/8															9.0
3																											
4	48		2 1/4	3/4	1	17 3/4	16 3/8	4	6	7	1	13 1/8															16.0
5	48		2 1/4	3/4	1	17 3/4	16 3/8	4	6	7	1	13 1/8															16.0

STANDARD SIGN
W6-3

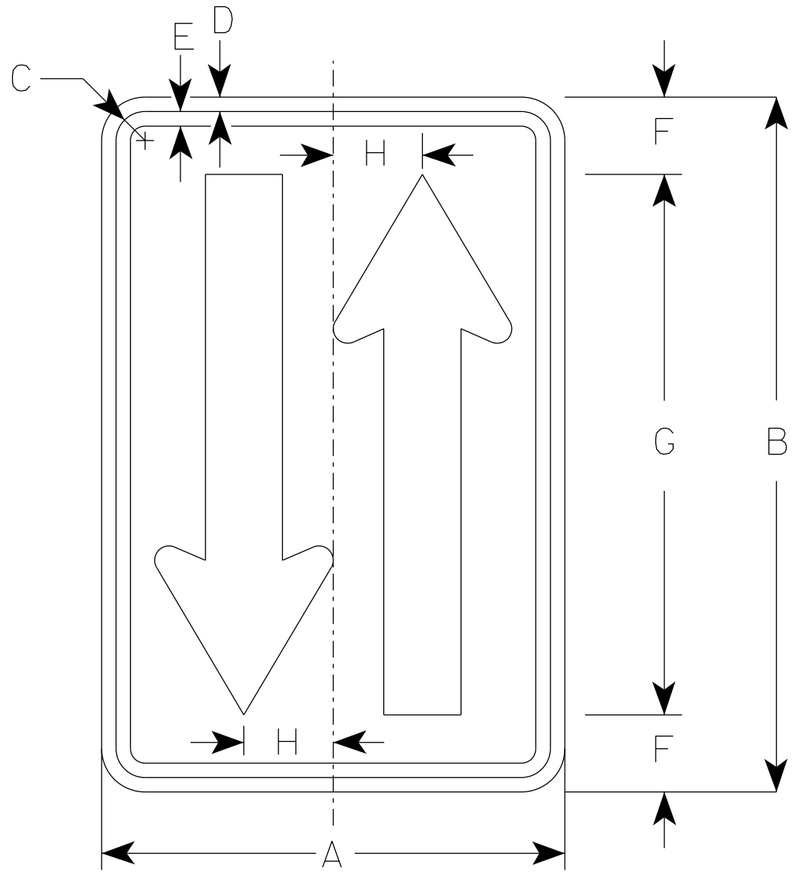
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/10/16 PLATE W6-3.11

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

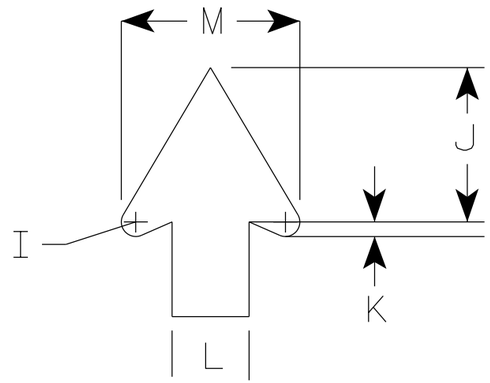
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W63.DGN PLOT DATE : 10-MAR-2016 14:01 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 6.080757:1.000000 WISDOT/CADDS SHEET 42



W6-4

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	12	18	1 1/8	3/8	3/8	2	14	2 1/4	3/8	4	1/8	2	4 5/8														1.5
2M	12	18	1 1/8	3/8	3/8	2	14	2 1/4	3/8	4	1/8	2	4 5/8														1.5
3																											
4																											
5																											

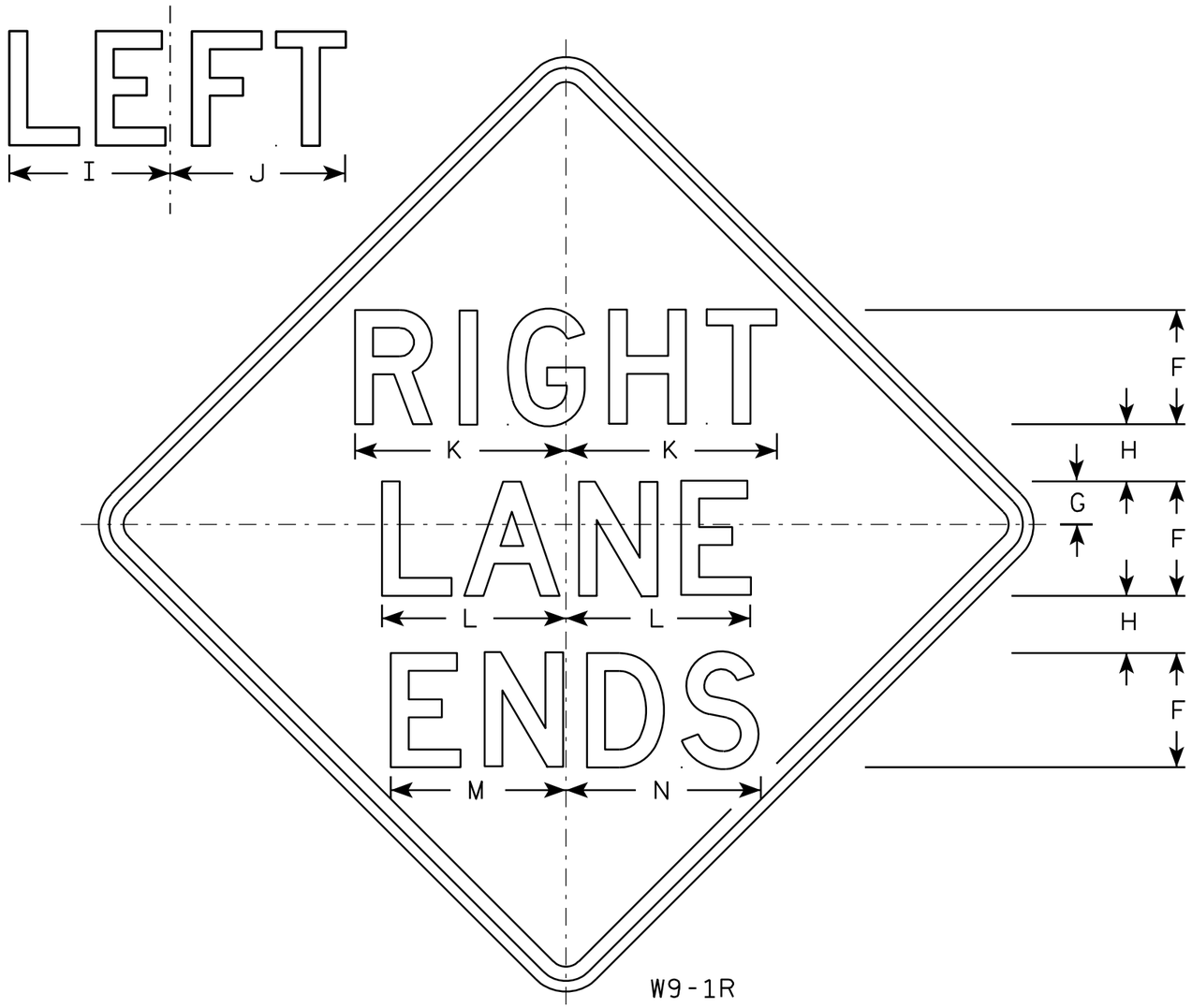
STANDARD SIGN
W6-4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/2021 PLATE NO. W6-4.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



W9-1R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. W9-1L same as W9-1R except the word Left replaces Right.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	5	1 1/2	2 1/2	7 1/8	7 5/8	9 1/4	8 1/8	7 5/8	8 5/8													6.25
2S	36		1 5/8	5/8	3/4	6	2	3	8 1/2	9 1/8	11	9 3/4	9	10 3/8													9.0
2M	36		1 5/8	5/8	3/4	6	2	3	8 1/2	9 1/8	11	9 3/4	9	10 3/8													9.0
3	36		1 5/8	5/8	3/4	6	2	3	8 1/2	9 1/8	11	9 3/4	9	10 3/8													9.0
4	36		1 5/8	5/8	3/4	6	2	3	8 1/2	9 1/8	11	9 3/4	9	10 3/8													9.0
5	48		2 1/4	3/4	1	8	3	4	11 1/4	12 1/4	14 3/4	12 7/8	12 1/4	13 5/8													16.0

STANDARD SIGN
W9-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 03/18/13 PLATE NO. W9-1.8

PROJECT NO:

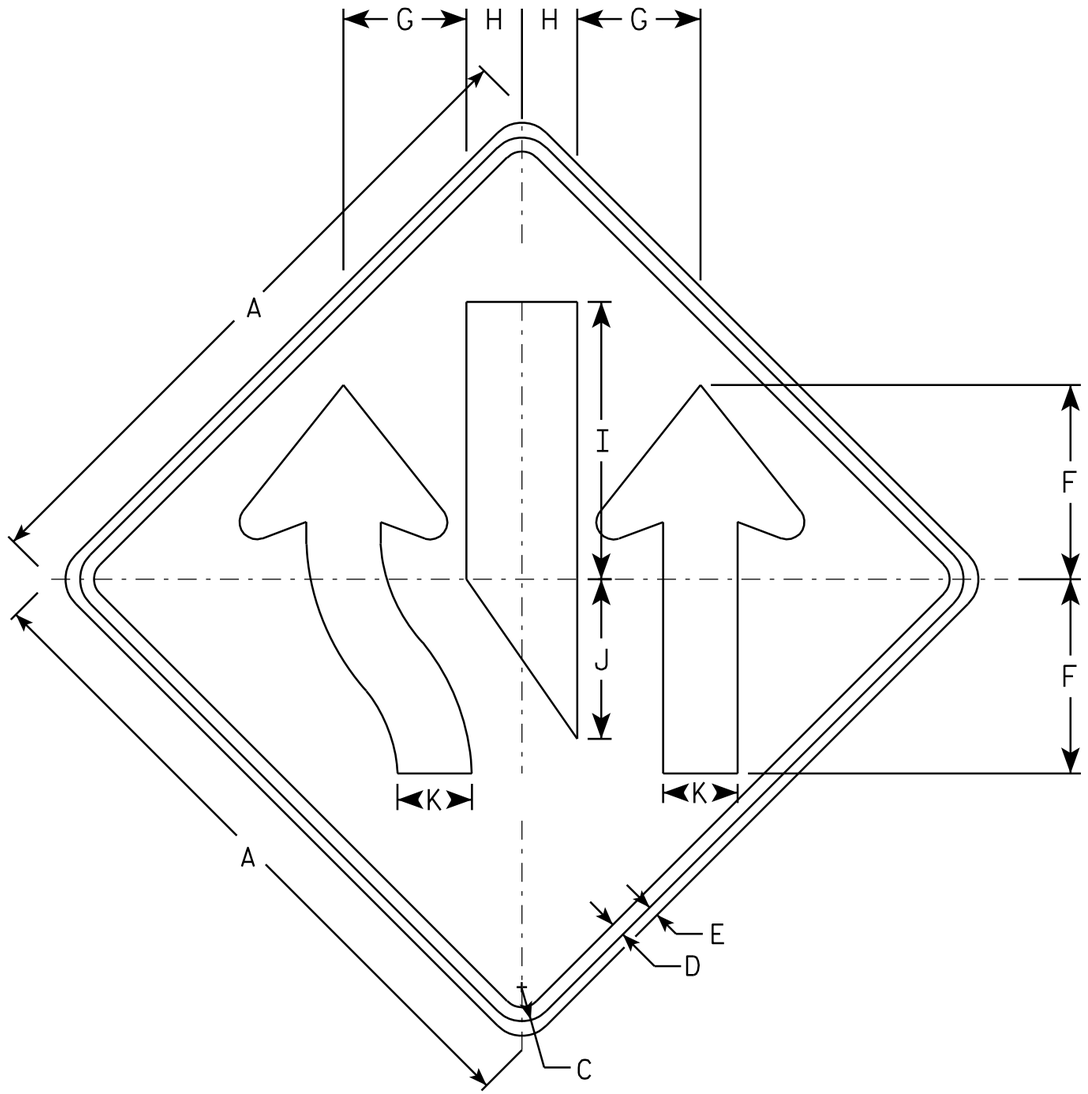
SHEET NO: 1112 E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W91.DGN PLOT DATE : 18-MAR-2013 11:42 PLOT BY : mscsja

WISDOT/CADDS SHEET 42

7

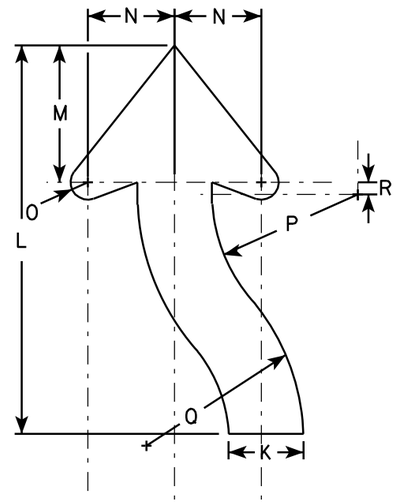
7



W9-3A

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36		1 3/8	1/2	5/8	10 1/2	6 5/8	3	15	8 5/8	4	21	7 3/8	4 3/4	7/8	8	12	3/4									9
2M	36		1 3/8	1/2	5/8	10 1/2	6 5/8	3	15	8 5/8	4	21	7 3/8	4 3/4	7/8	8	12	3/4									9
3	48		2 1/4	3/4	1	14	9	4	20	11 1/2	5 3/8	28	9 7/8	6 1/4	1 1/4	10 5/8	16	7/8									16
4	48		2 1/4	3/4	1	14	9	4	20	11 1/2	5 3/8	28	9 7/8	6 1/4	1 1/4	10 5/8	16	7/8									16
5	48		2 1/4	3/4	1	14	9	4	20	11 1/2	5 3/8	28	9 7/8	6 1/4	1 1/4	10 5/8	16	7/8									16

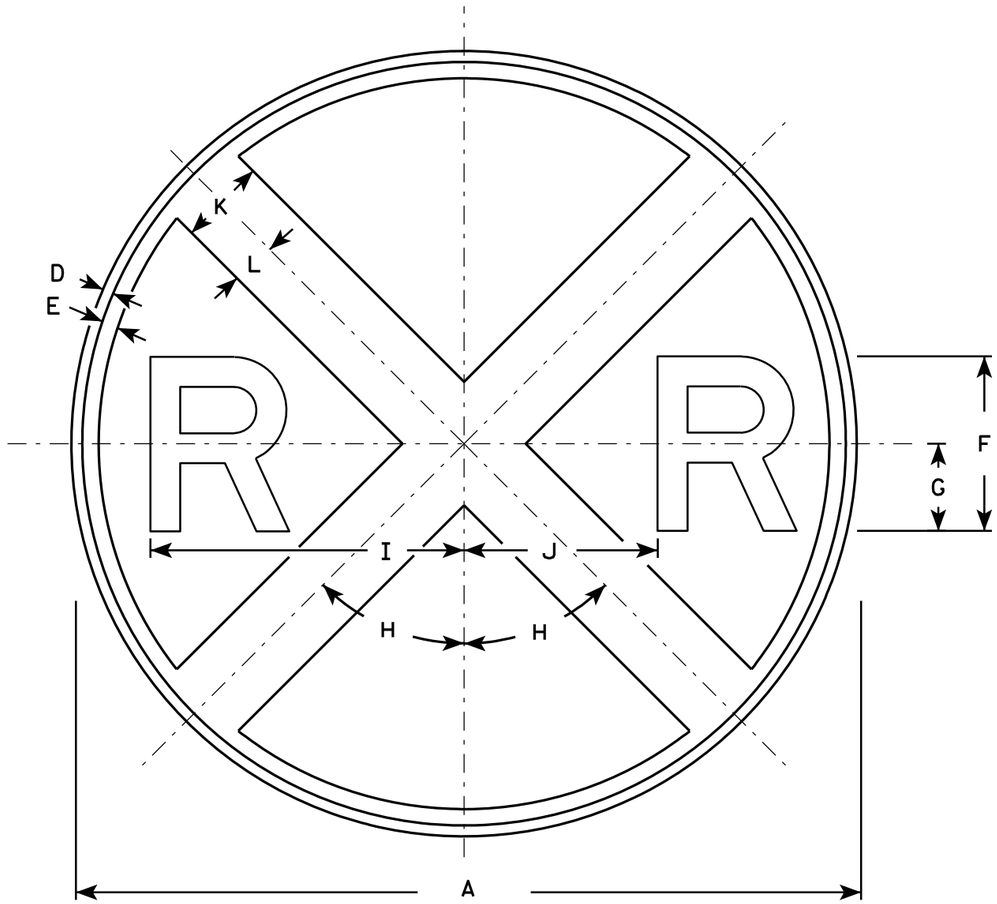
STANDARD SIGN
W9-3A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/02/11 PLATE NO. W9-3A.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 1113 | E



W10-1

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - E

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30			3/8	5/8	7	3 1/2	45°	12 3/8	7 1/8	3	1 1/2															4.91
2S	36			5/8	3/4	8	4	45°	14 3/8	8 5/8	4	2															7.07
2M	36			5/8	3/4	8	4	45°	14 3/8	8 5/8	4	2															7.07
3																											
4	48			3/4	1 1/4	10	5	45°	18 3/8	11 5/8	5	2 1/2															12.57
5																											

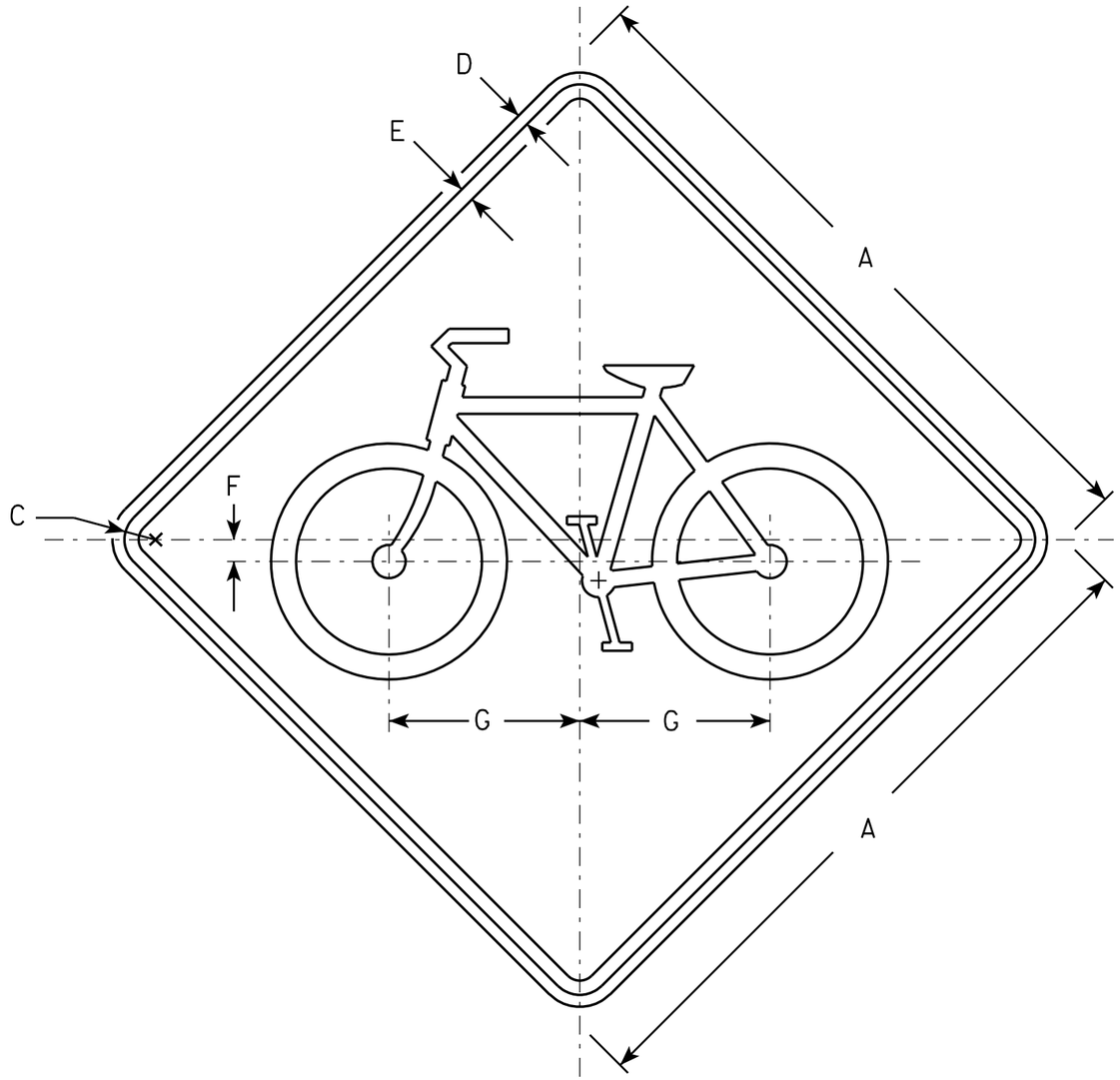
STANDARD SIGN
W10-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/13/13 PLATE NO. W10-1.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 1114	E



W11-1

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/4	1/2	3/4	6 5/8																				4.0
2S	30		1 3/8	1/2	5/8	1	8 1/2																				6.25
2M	36		1 5/8	5/8	3/4	1 1/4	10																				9.0
3	36		1 5/8	5/8	3/4	1 1/4	10																				9.0
4	48		2 1/4	3/4	1	1 5/8	13 3/8																				16.0
5																											16.0

STANDARD SIGN
W11-1

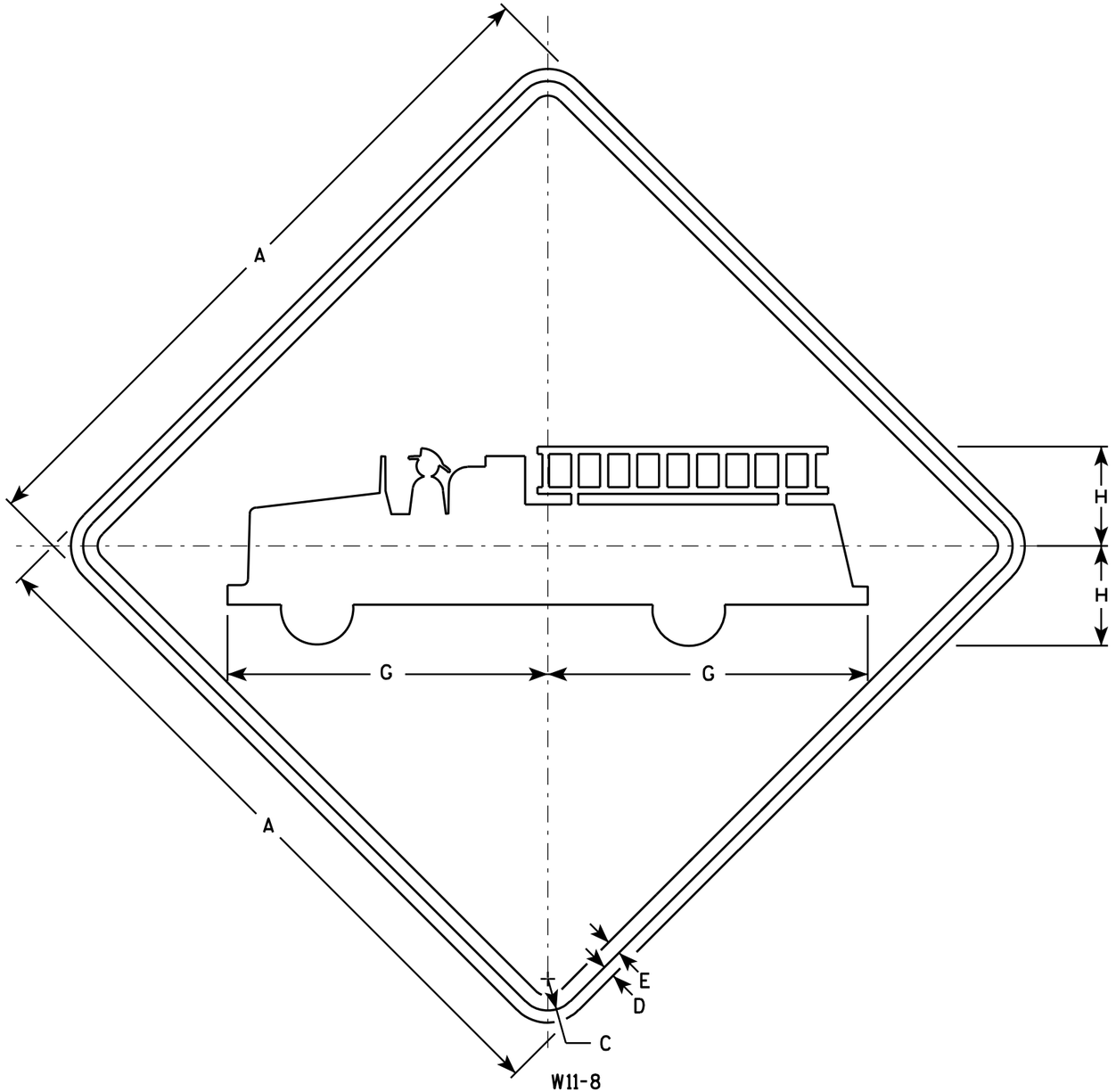
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/21/10 PLATE NO. W11-1.9

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 1115 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W111.DGN PLOT DATE : 21-DEC-2010 10:08 PLOT BY : dotsja PLOT NAME : PLOT SCALE : 7.945391:1.000000
WISDOT/CADDS SHEET 42



W11-8

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2		11	3 3/8																			4.0
2S	30		1 3/8	1/2	5/8		13 3/4	4 3/8																			6.25
2M	30		1 3/8	1/2	5/8		13 3/4	4 3/8																			6.25
3	36		1 5/8	5/8	3/4		16 1/2	5 1/4																			9.0
4	48		2 1/4	3/4	1		22	7																			16.0
5																											

STANDARD SIGN
W11-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W11-8.7

PROJECT NO:

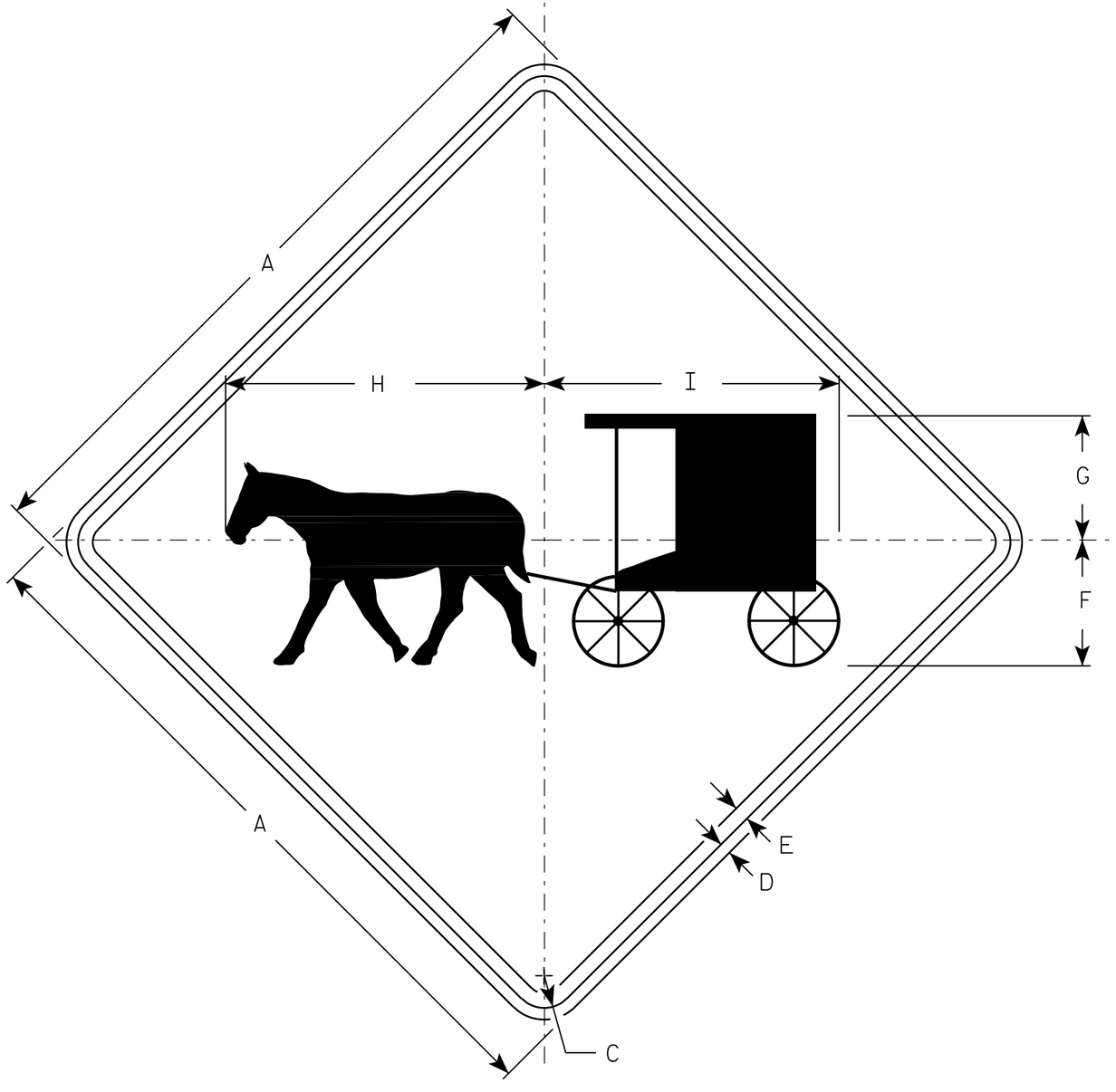
SHEET NO: 1116 E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W118.DGN PLOT DATE : 13-MAR-2013 12:58 PLOT BY : mscj9h

WISDOT/CADDS SHEET 42

7

7



W11-12

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

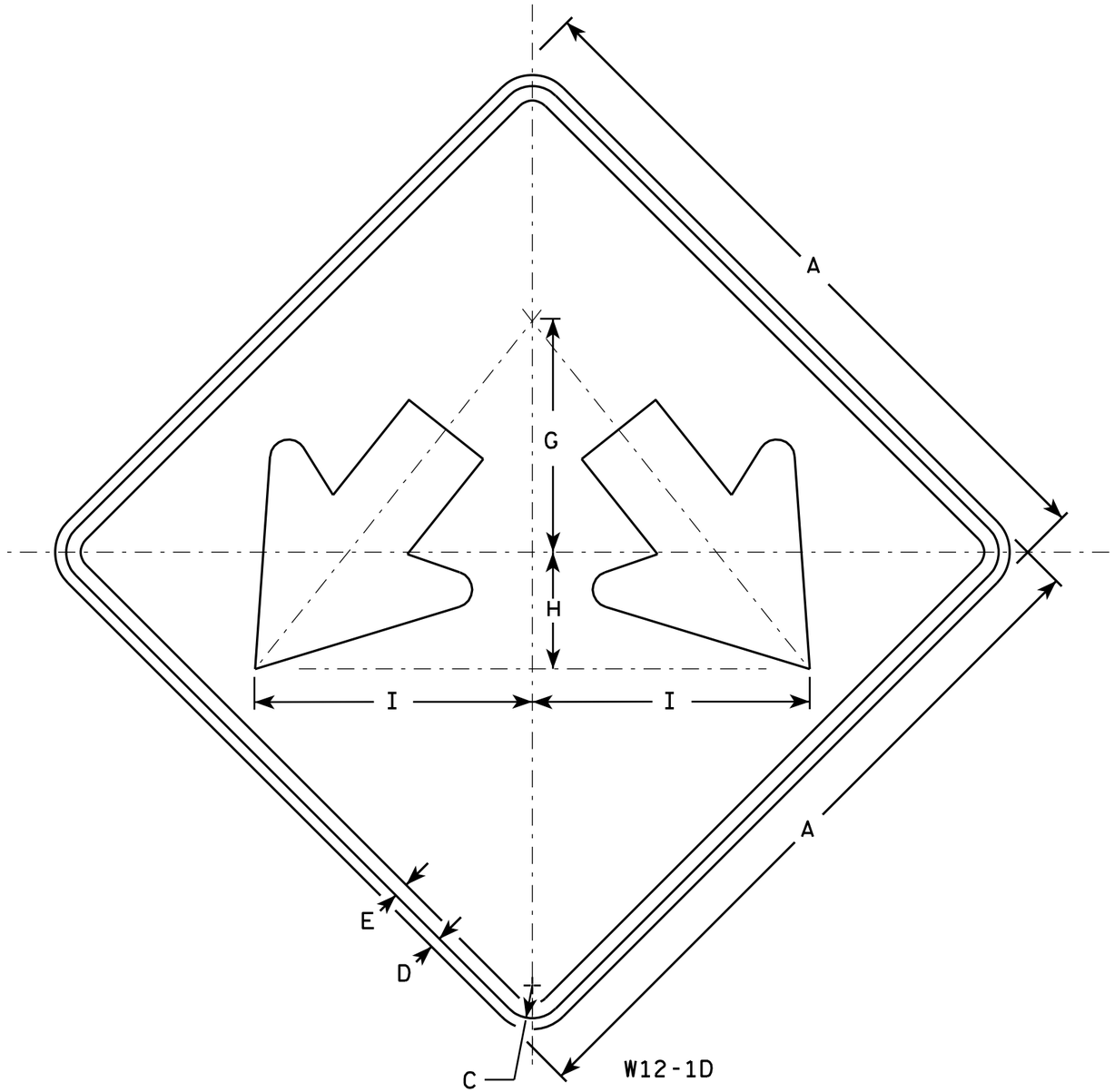
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	5 3/8	5 1/4	13 5/8	12 5/8																		6.25
2S	36		1 5/8	5/8	3/4	6 1/2	6 3/8	16 3/8	15 1/8																		9.0
2M	36		1 5/8	5/8	3/4	6 1/2	6 3/8	16 3/8	15 1/8																		9.0
3	48		2 1/4	3/4	1	8 5/8	8 1/2	21 7/8	20 1/8																		16.0
4																											
5																											

STANDARD SIGN
W11-12

WISCONSIN DEPT OF TRANSPORTATION

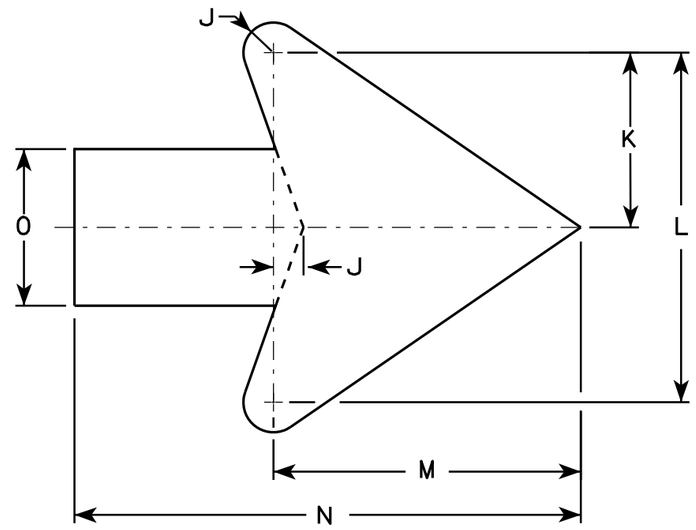
APPROVED Matthew R Rauch
for State Traffic Engineer
DATE 3/13/13 PLATE NO. W11-12.4

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 1117	E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
2M	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
3	30		1 3/8	1/2	5/8		10	5	11 7/8	3/4	4 1/2	9	7 7/8	13	4												6.25
4	36		1 3/8	1/2	5/8		12	6	14 1/4	1	5 1/2	10 7/8	9 5/8	15 3/4	4 3/4												9.0
5	48		2 1/4	3/4	1		16	8	19	1 1/4	7 1/4	14 1/2	12 3/4	21	6 1/4												16.0

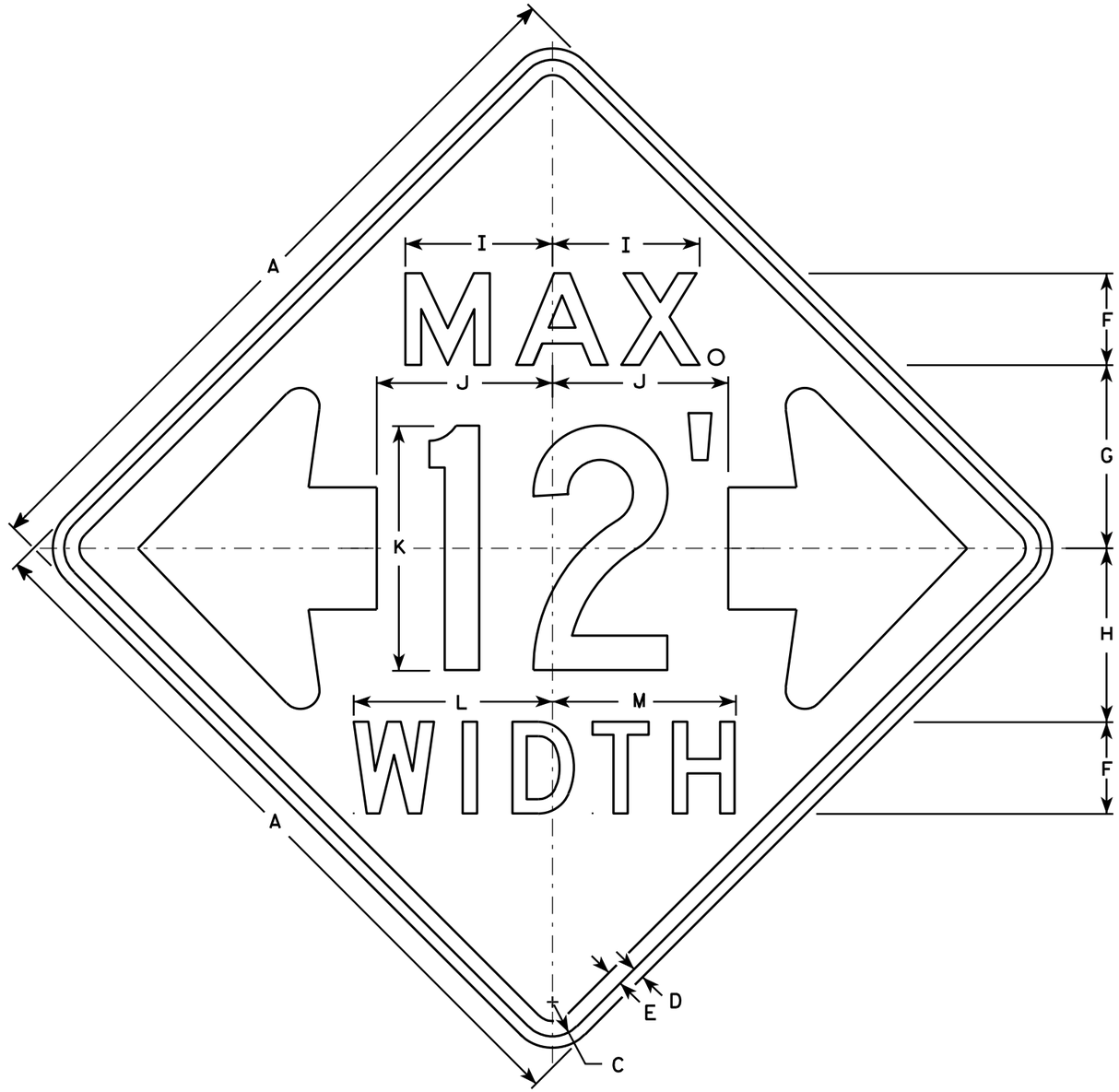
STANDARD SIGN
W12-1D

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W12-1D.15

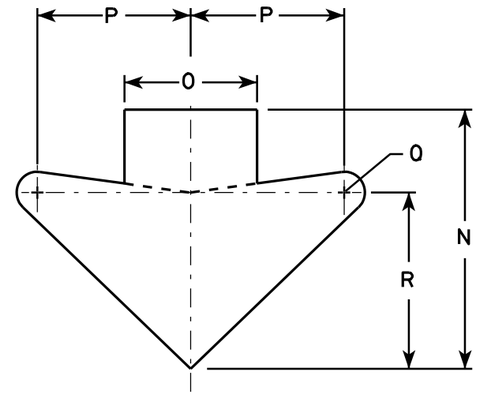
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 1118	E



W12-52

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. The top line is series E, the numerals are series C, and the bottom line is series D.
6. Substitute appropriate numerals and adjust spacing as required.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48		2 1/4	3/4	1	6	12	11 3/8	9 5/8	11 1/2	16	13	12	15 5/8	8	9 1/4	1 1/4	10 5/8									16.0
2M	48		2 1/4	3/4	1	6	12	11 3/8	9 5/8	11 1/2	16	13	12	15 5/8	8	9 1/4	1 1/4	10 5/8									16.0
3																											
4																											
5																											

STANDARD SIGN
W12-52

WISCONSIN DEPT OF TRANSPORTATION

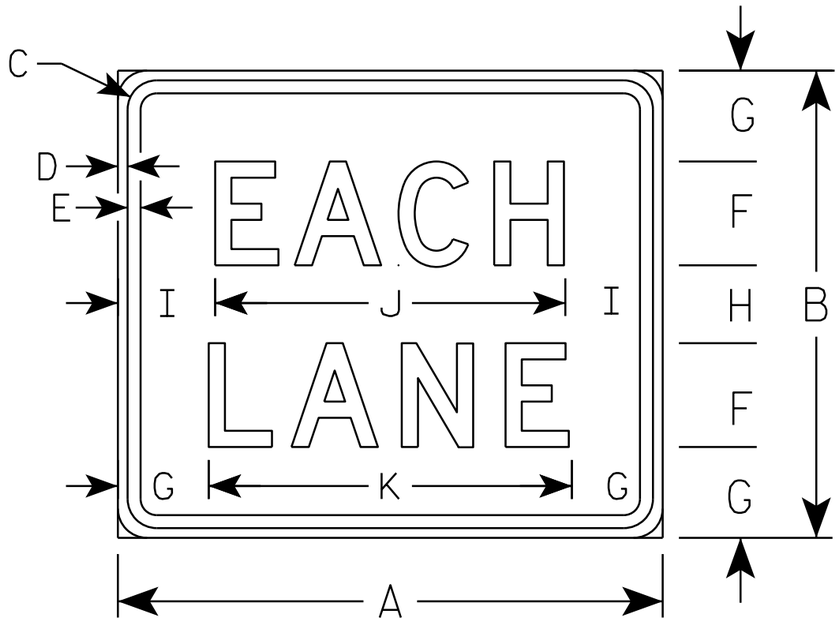
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/16/11 PLATE NO. W12-52.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 1119 | E

7

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W1252.DGN PLOT DATE : 16-MAR-2011 14:45 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 9.137199:1.000000
WISDOT/CADDS SHEET 42



W12-52P

NOTES

1. Sign is Type II - Type F Reflective - reference
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	42	36	2 1/4	3/4	1	8	7	6	7 1/2	27	28																10.5
2M	42	36	2 1/4	3/4	1	8	7	6	7 1/2	27	28																10.5
3																											
4																											
5																											

STANDARD SIGN
W12-52P

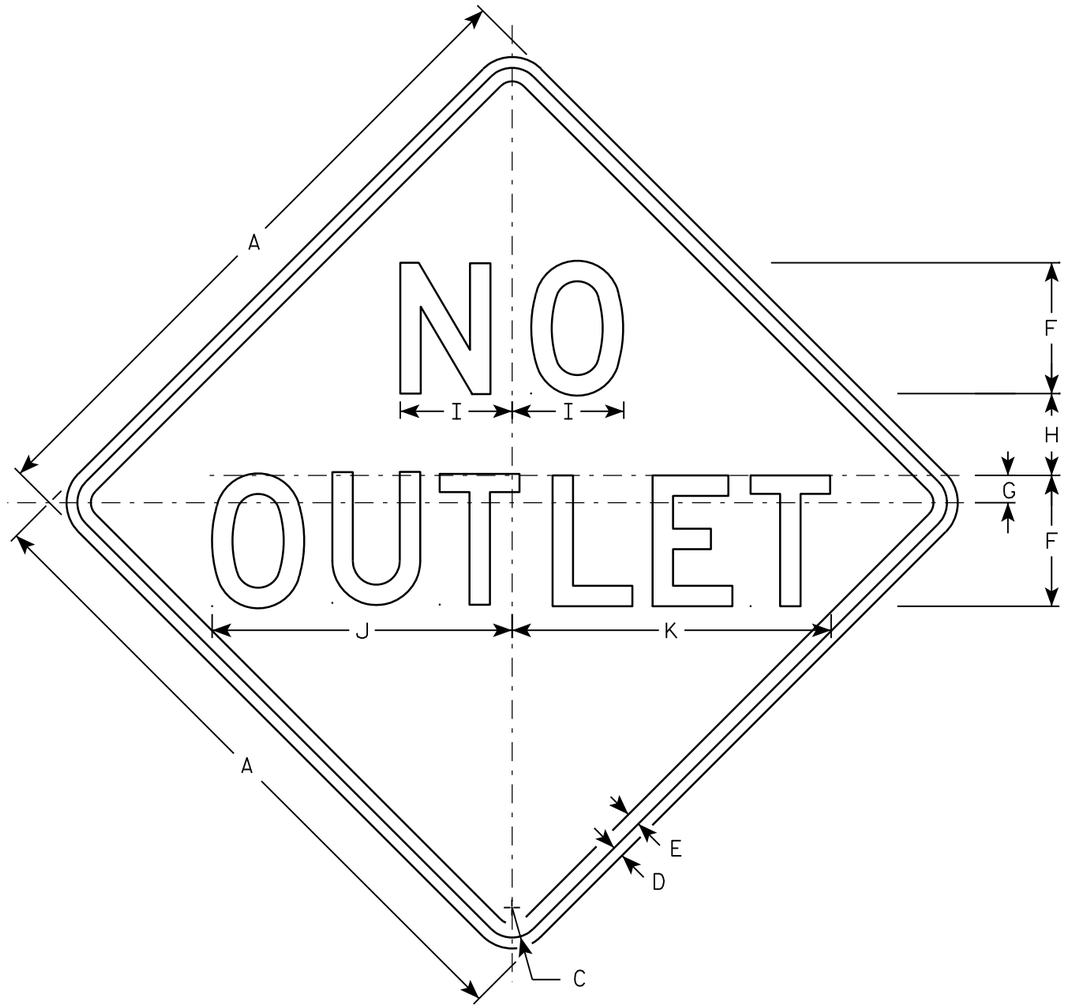
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/16/13 PLATE NO. W12-52P.1

PROJECT NO: | HWY: | COUNTY: | | SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W1252P.dgn PLOT DATE : 16-DEC-2013 11:01 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 11.675051:1.000000



W14-2

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - YELLOW
   Message - BLACK
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	5	1	2 3/4	4 1/8	11 3/4	12 3/8																4.0
2S	30		1 3/8	1/2	5/8	6	1 1/4	3 3/4	5 1/8	13 3/4	14 5/8																6.25
2M	30		1 3/8	1/2	5/8	6	1 1/4	3 3/4	5 1/8	13 3/4	14 5/8																6.25
3	36		1 5/8	5/8	3/4	7	1 3/8	4 5/8	6	16 1/8	17 1/8																9.0
4																											
5																											

STANDARD SIGN
W14-2

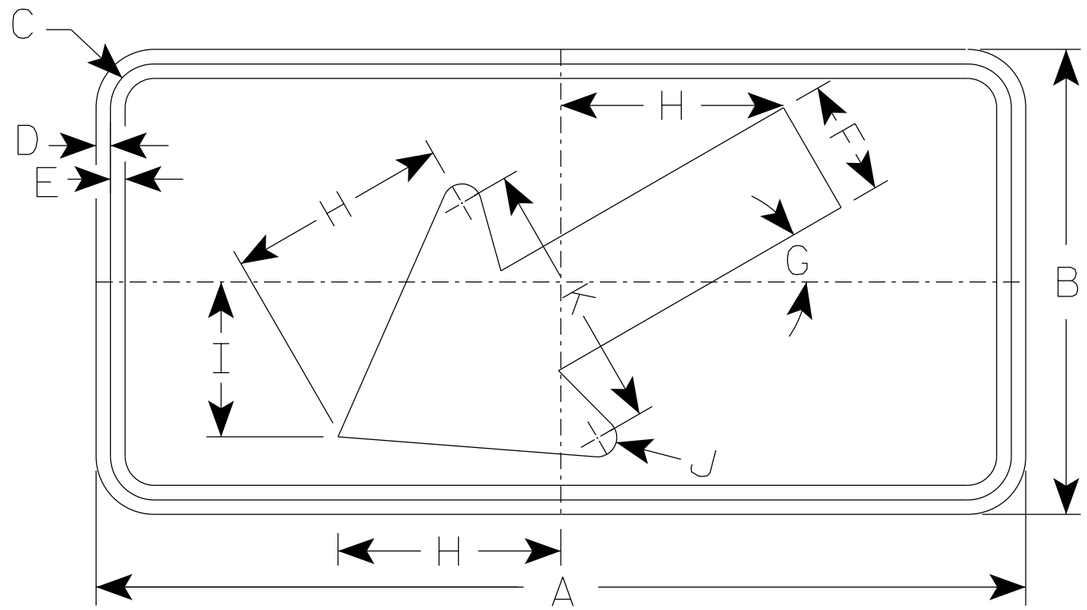
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W14-2.3

PROJECT NO:

SHEET NO: 1121 E



W16-7L

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. W16-7R is the same as W16-7L except the arrow is reversed along the vertical centerline.

* For 36" x 36" Warning Signs, use 30" x 18" W16-7L signs.
* For 48" x 48" Warning Signs, use 48" x 24" W16-7L signs.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 1/8	3/8	3/8	3	30°	5 3/4	4	1/2	7																2.0
* 2M	30	18	1 1/8	3/8	1/2	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
* 3	30	18	1 1/8	3/8	1/2	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
* 4	48	24	1 3/8	1/2	5/8	6	30°	11 1/2	8	1	14																8.0
5																											

STANDARD SIGN
W16-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

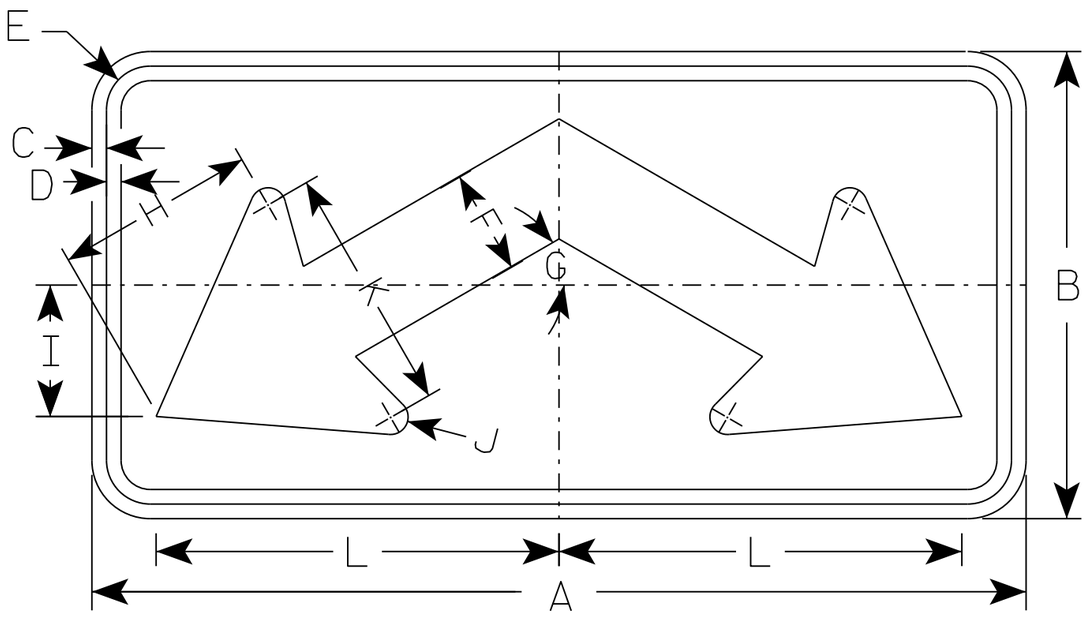
DATE 3/16/2021 PLATE NO. W16-7.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 1122	E

7

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black



W16-7D

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24	12	3/8	3/8	1 1/8	2 5/8	30°	5 1/8	3 3/8	1/2	6 1/4	10 3/8															2.0
2S	24	12	3/8	3/8	1 1/8	2 5/8	30°	5 1/8	3 3/8	1/2	6 1/4	10 3/8															2.0
2M	30	18	3/8	1/2	1 1/8	4	30°	7 5/8	5 3/8	5/8	9 1/4	13															3.75
3	30	18	3/8	1/2	1 1/8	4	30°	7 5/8	5 3/8	5/8	9 1/4	13															3.75
4	48	24	1/2	5/8	1 3/8	5 3/8	30°	10 3/8	7 1/4	1	12 5/8	20 3/4															8.0
5																											

STANDARD SIGN
W16-7D

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

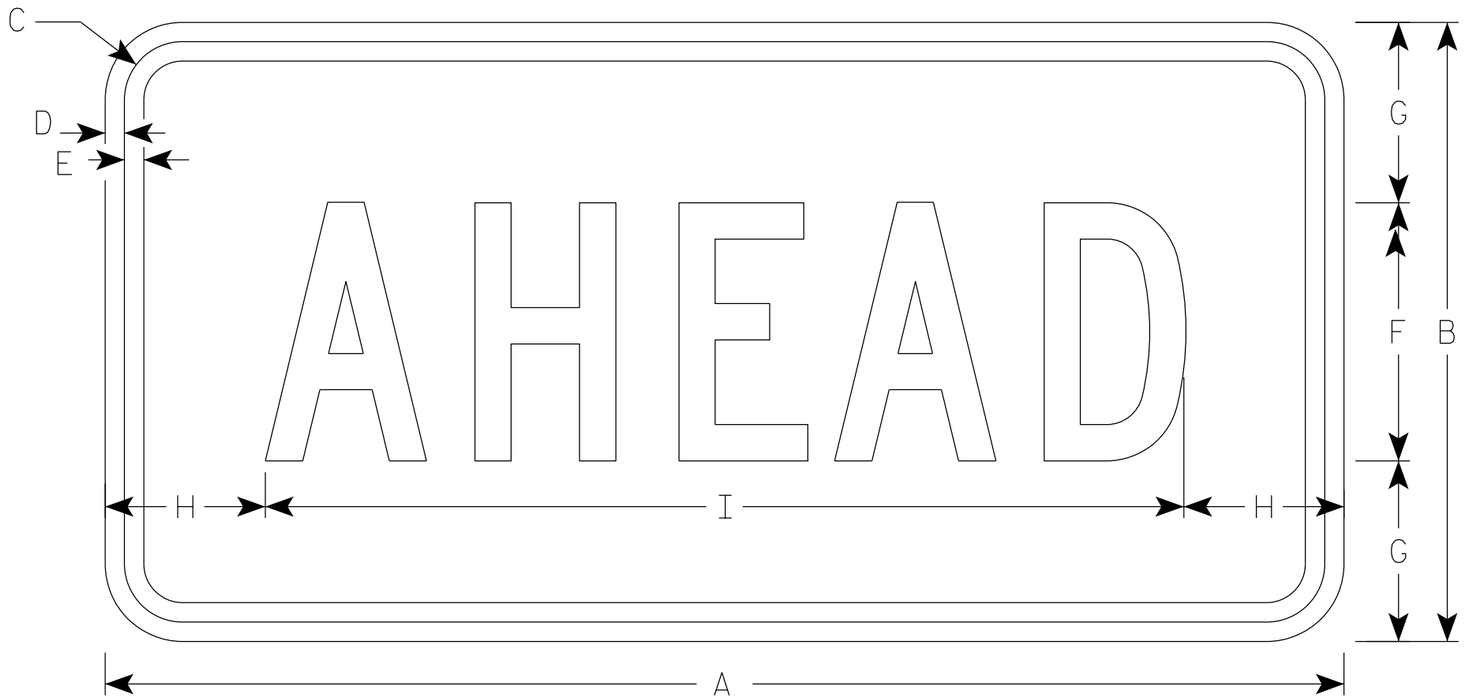
DATE 8/1/16 PLA 1123 116-7D.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W16_7D.DGN PLOT DATE : 11-AUG-2016 11:30 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 3.891684:1 000000

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - C



W16-9P

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 1/8	3/8	3/8	5	3 1/2	3 1/8	17 3/4																		2.0
2M	30	18	1 1/8	3/8	1/2	7	5 1/2	2 3/4	24 1/2																		3.75
3	30	18	1 1/8	3/8	1/2	7	3 1/2	2 3/4	24 1/2																		3.75
4	48	24	1 3/8	1/2	5/8	10	7	6 1/8	35 3/4																		8.0
5																											

STANDARD SIGN
W16-9P

WISCONSIN DEPT OF TRANSPORTATION

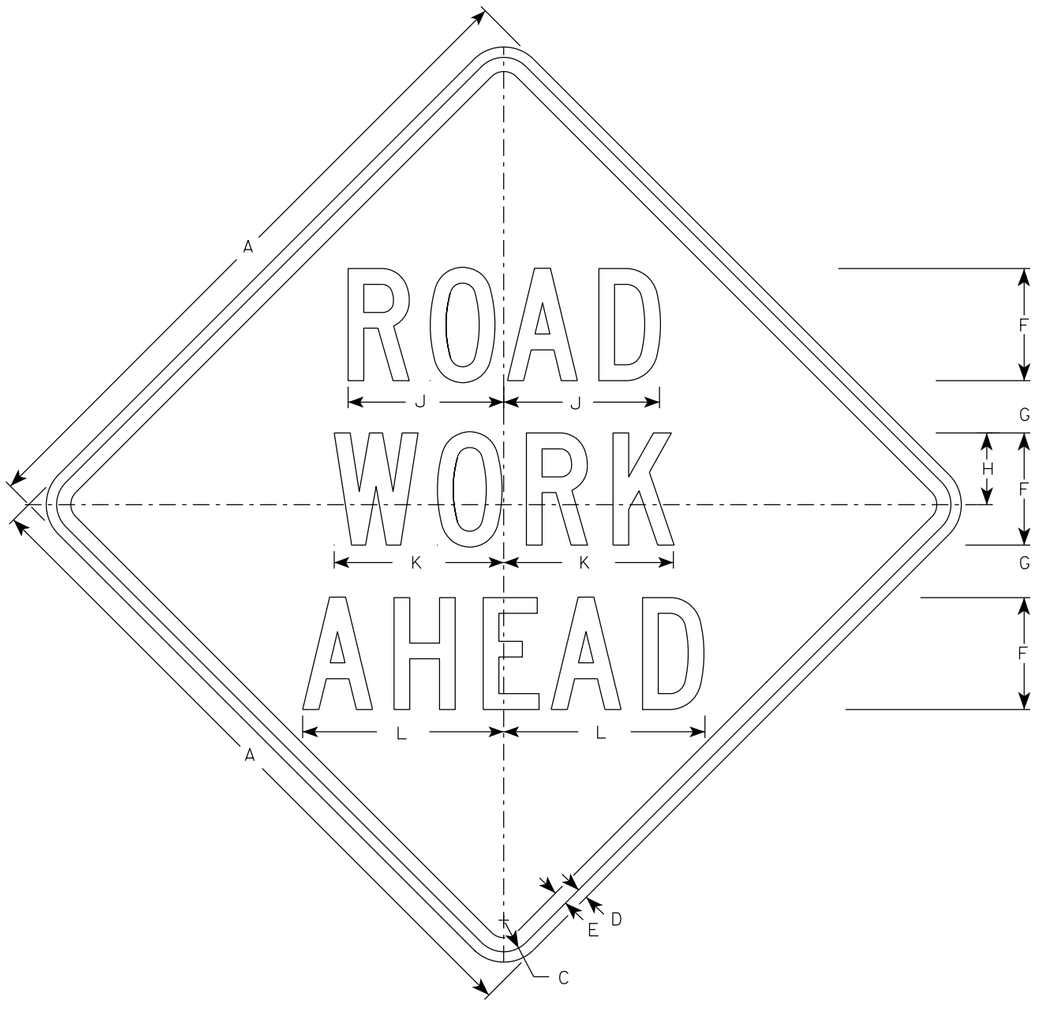
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/7/19 PLATE NO. W16-9P.7

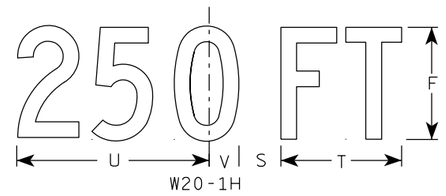
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 1124 | E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W169P.DGN PLOT DATE : 07-MAR-2019 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

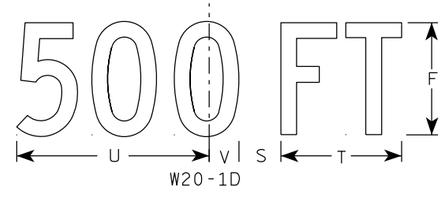
7



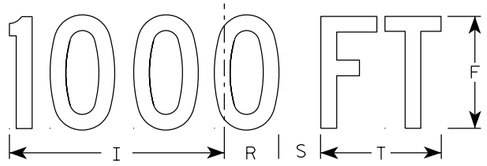
W20-1A



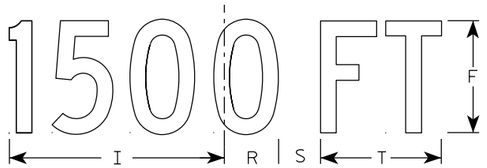
W20-1H



W20-1D



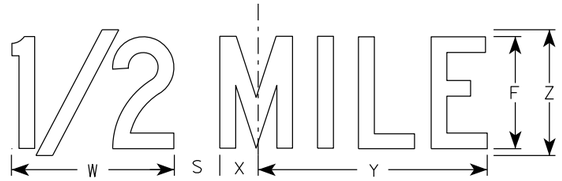
W20-1C



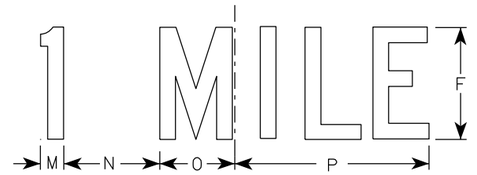
W20-1B

NOTES

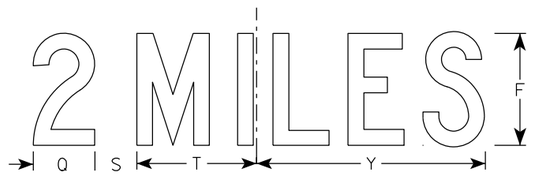
1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



W20-1G



W20-1F



W20-1E

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 7/8	1 1/8	4 1/2	3 1/2	9	3 1/4	2 1/2	2 1/4	5 5/8	9	1 3/8	8	1 3/4	10 3/4	6	9.0
2S	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
2M	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
3	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
4	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
5	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0

STANDARD SIGN
W20-1A, B, C, D, E, F, G & H

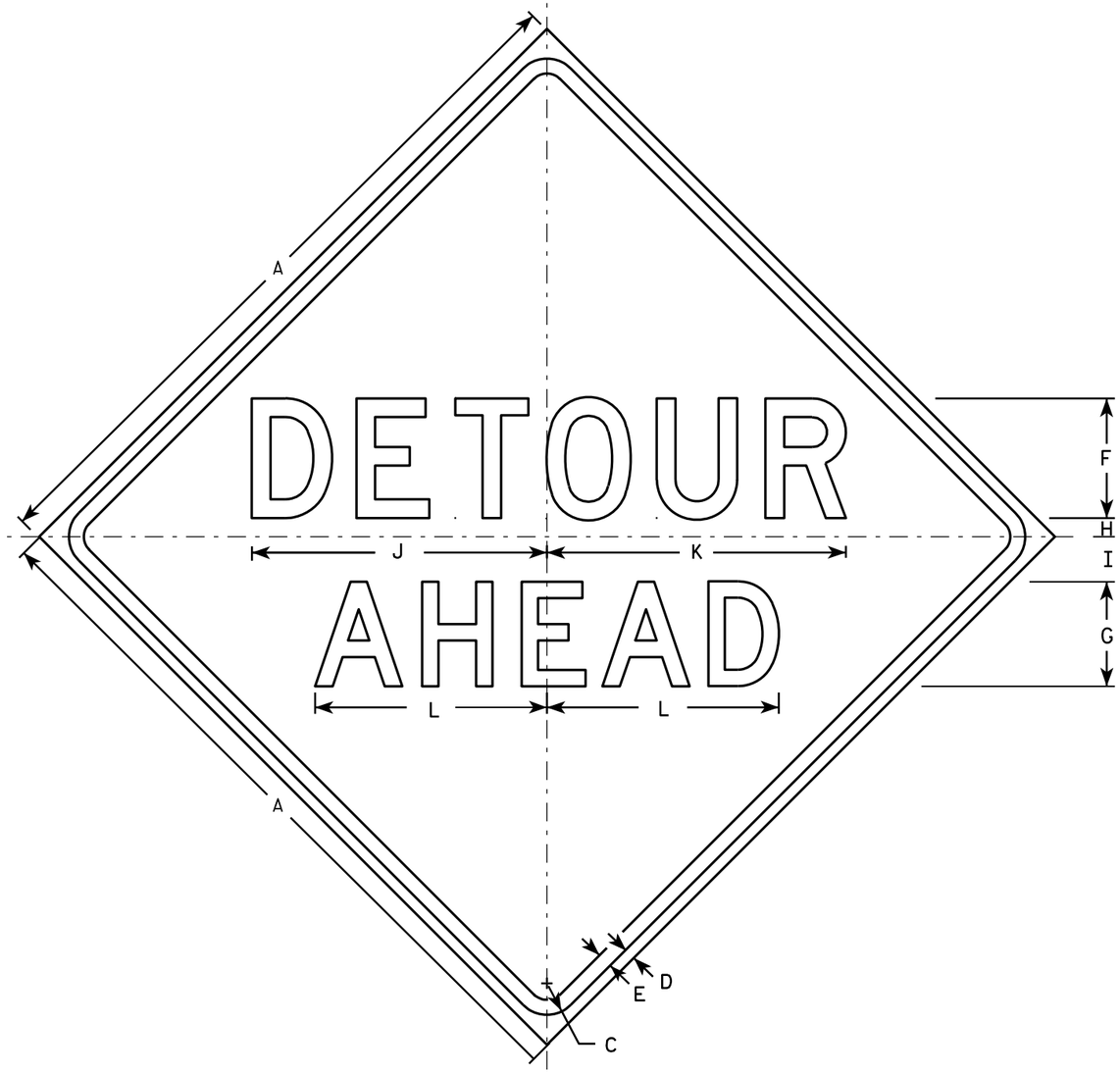
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

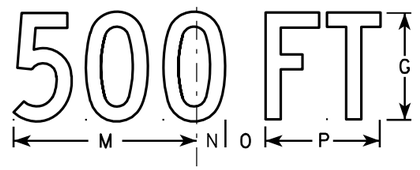
DATE 3/25/2020 PLATE NO. W20-1.11

PROJECT NO:

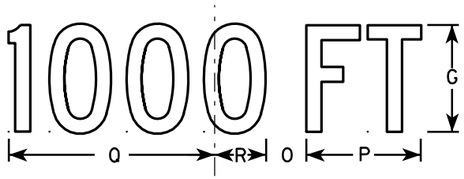
SHEET NO: 1125 E



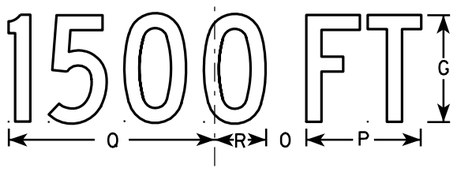
W20-2A



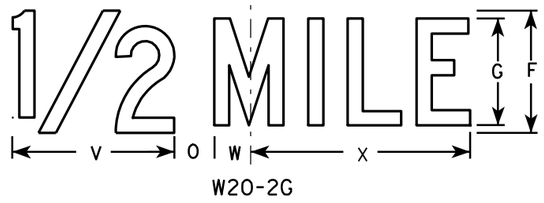
W20-2D



W20-2C



W20-2B



W20-2G



W20-2F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Line 1 is Series D.
   Line 2 is Series D for AHEAD and Series C for all other distances.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	6	5	1	2 1/4	14 3/4	15	11 5/8	9	1 3/8	1 7/8	5 5/8	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	8	1 3/4	10 3/4			9.0
2S	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
2M	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
3	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
4	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
5	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0

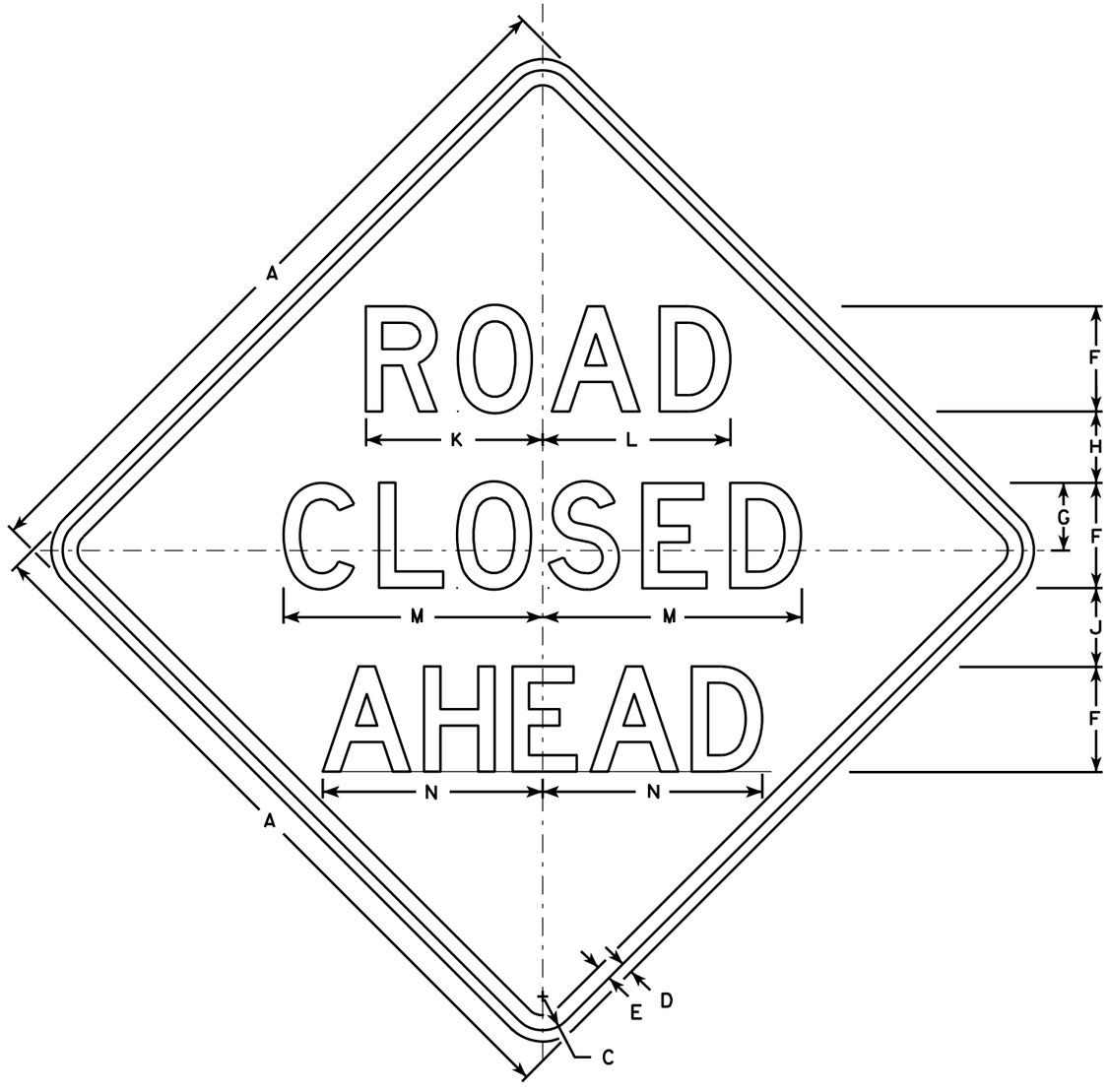
STANDARD SIGN
W20-2A,B,C,D,F & G

WISCONSIN DEPT OF TRANSPORTATION

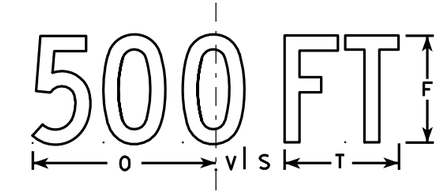
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-2.6

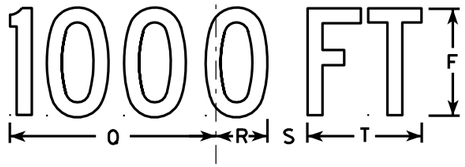
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 1126 | E



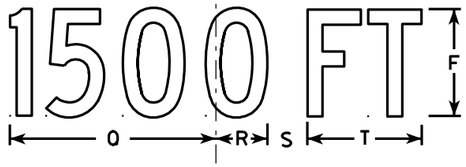
W20-3A



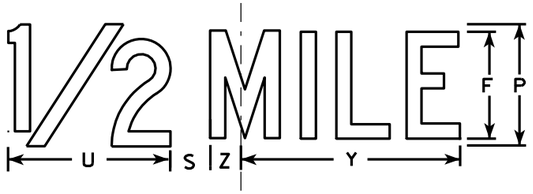
W20-3D



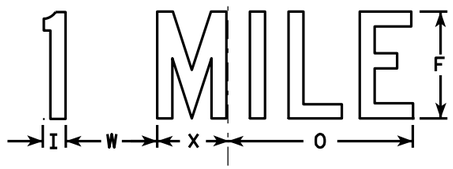
W20-3C



W20-3B



W20-3G



W20-3F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - see note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1 and 2 are Series D.
   Line 3 is Series D for AHEAD and Series C for all other distances.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	3 3/8	3 1/2	1 1/8	4	8 3/8	8 7/8	12 1/2	11	9	6	10 1/8	2 1/2	1 7/8	5 5/8	8	1 3/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
3	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
4	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
5	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0

STANDARD SIGN
W20-3A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-3.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 1127 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W203.DGN PLOT DATE : 18-MAR-2011 12:08 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 9.931739:1.000000

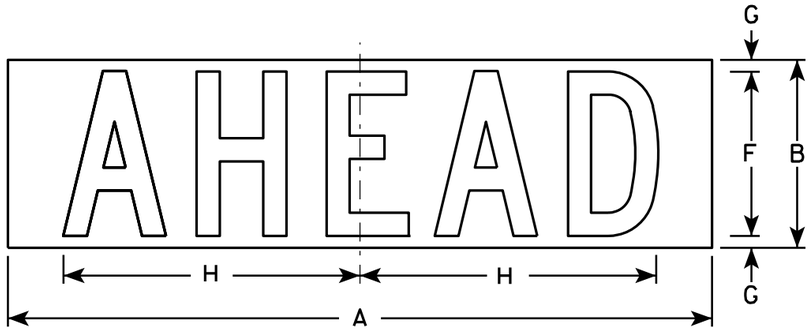
WISDOT/CADDS SHEET 42

7

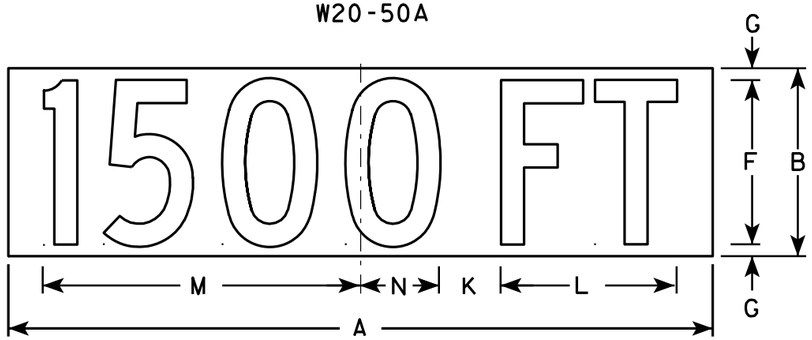
7

NOTES

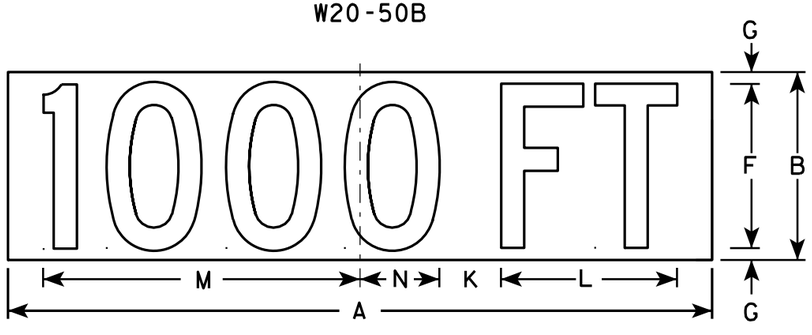
1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. These plaques are for changing the distance shown on signs W20 series of signs.



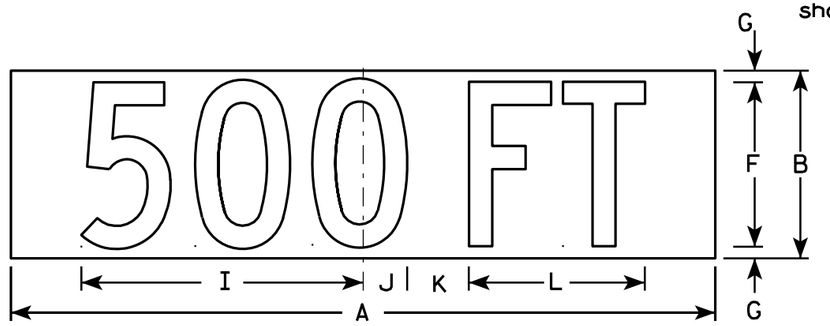
W20-50A



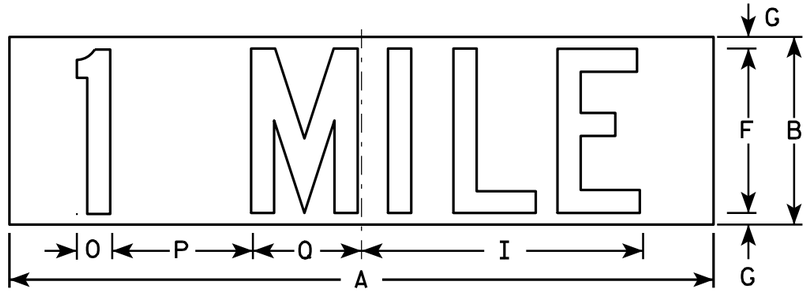
W20-50B



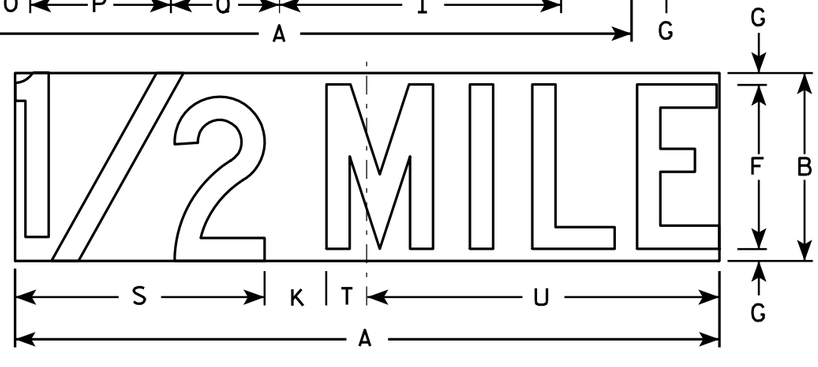
W20-50C



W20-50D



W20-50F



W20-50G

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	22	6				5	½	9 ½	9	1 ⅜	1 ⅞	5 ⅝	10 ⅛	2 ½	1 ⅛	4 ½	3 ½		8	1 ¾	10 ¾						0.92
2S	30	8				7	½	12 ⅝	12	1 ⅞	2 ⅝	7 ½	13 ½	3 ⅜	1 ½	6	4 ⅝		10 ⅝	2 ⅜	14 ⅜						1.67
2M	30	8				7	½	12 ⅝	12	1 ⅞	2 ⅝	7 ½	13 ½	3 ⅜	1 ½	6	4 ⅝		10 ⅝	2 ⅜	14 ⅜						1.67
3	30	8				7	½	12 ⅝	12	1 ⅞	2 ⅝	7 ½	13 ½	3 ⅜	1 ½	6	4 ⅝		10 ⅝	2 ⅜	14 ⅜						1.67
4	30	8				7	½	12 ⅝	12	1 ⅞	2 ⅝	7 ½	13 ½	3 ⅜	1 ½	6	4 ⅝		10 ⅝	2 ⅜	14 ⅜						1.67
5	30	8				7	½	12 ⅝	12	1 ⅞	2 ⅝	7 ½	13 ½	3 ⅜	1 ½	6	4 ⅝		10 ⅝	2 ⅜	14 ⅜						1.67

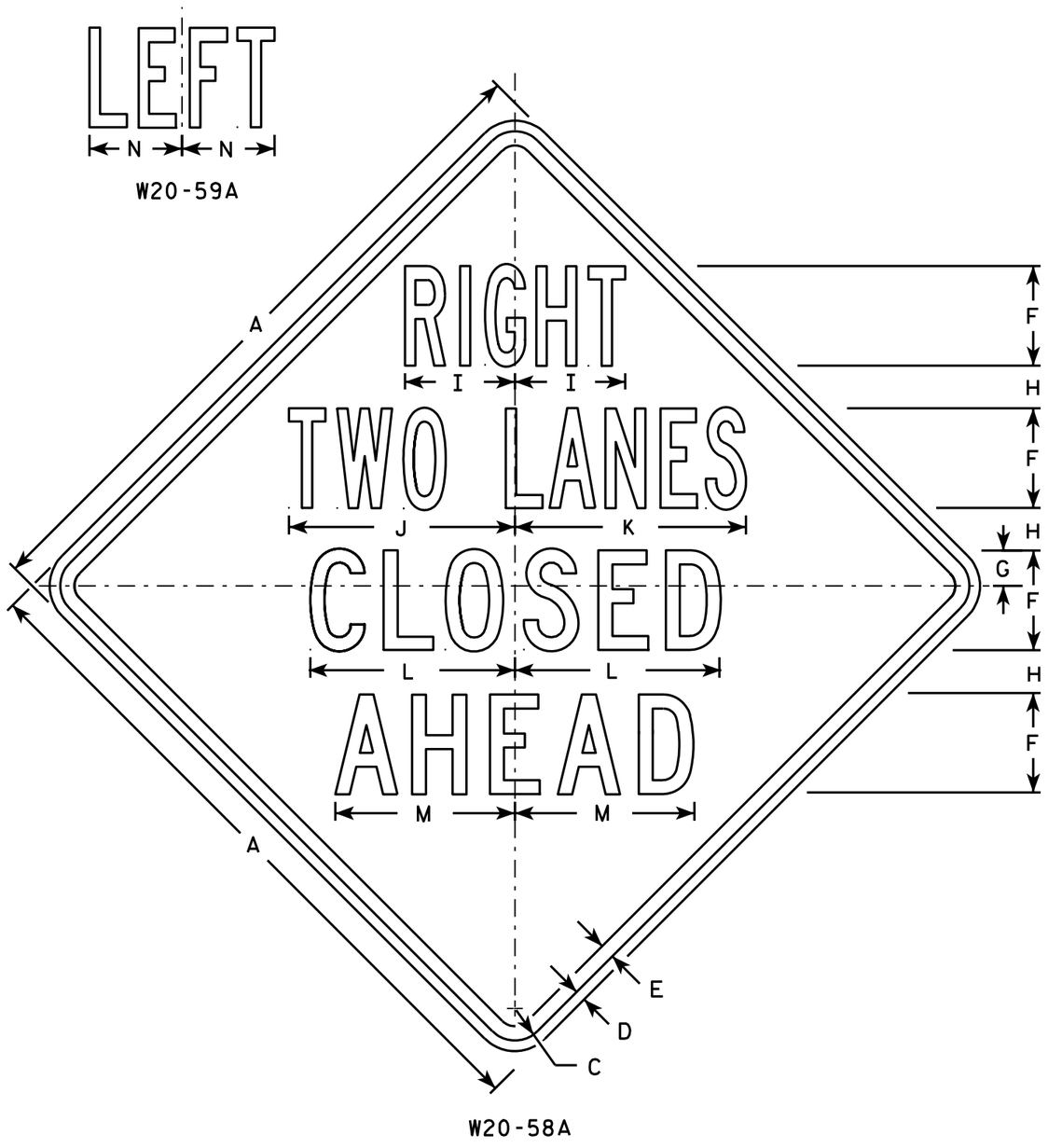
SUPPLEMENTARY MESSAGES
W20-50A, B, C, D, F, & G

WISCONSIN DEPT OF TRANSPORTATION

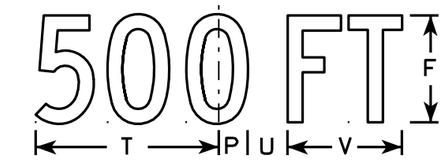
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-50.6

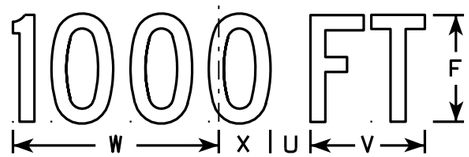
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 1128	E



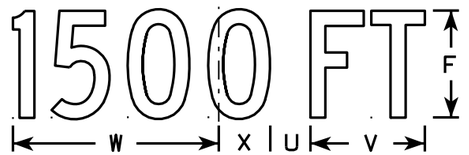
W20-58A



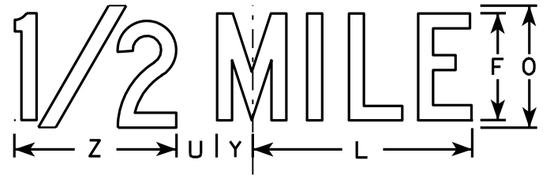
W20-58D



W20-58C



W20-58B



W20-58G



W20-58F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1 & 2 Series B.
   Lines 3 & 4 Series C.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	1 7/8	2 1/4	5 7/8	11 7/8	12 1/8	10 3/4	9 1/2	4 7/8	6	1 3/8	1 1/8	4 1/2	3 1/2	9	1 7/8	5 5/8	10 1/8	2 1/2	1 3/4	8	9.0
2S	48		2 1/4	3/4	1	7	2 1/2	3	7 3/4	15 7/8	16 1/4	14 3/8	12 5/8	6 1/2	8	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
2M	48		2 1/4	3/4	1	7	2 1/2	3	7 3/4	15 7/8	16 1/4	14 3/8	12 5/8	6 1/2	8	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
3	48		2 1/4	3/4	1	7	2 1/2	3	7 3/4	15 7/8	16 1/4	14 3/8	12 5/8	6 1/2	8	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
4	48		2 1/4	3/4	1	7	2 1/2	3	7 3/4	15 7/8	16 1/4	14 3/8	12 5/8	6 1/2	8	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
5	48		2 1/4	3/4	1	7	2 1/2	3	7 3/4	15 7/8	16 1/4	14 3/8	12 5/8	6 1/2	8	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0

STANDARD SIGN
W20-58A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-58.4

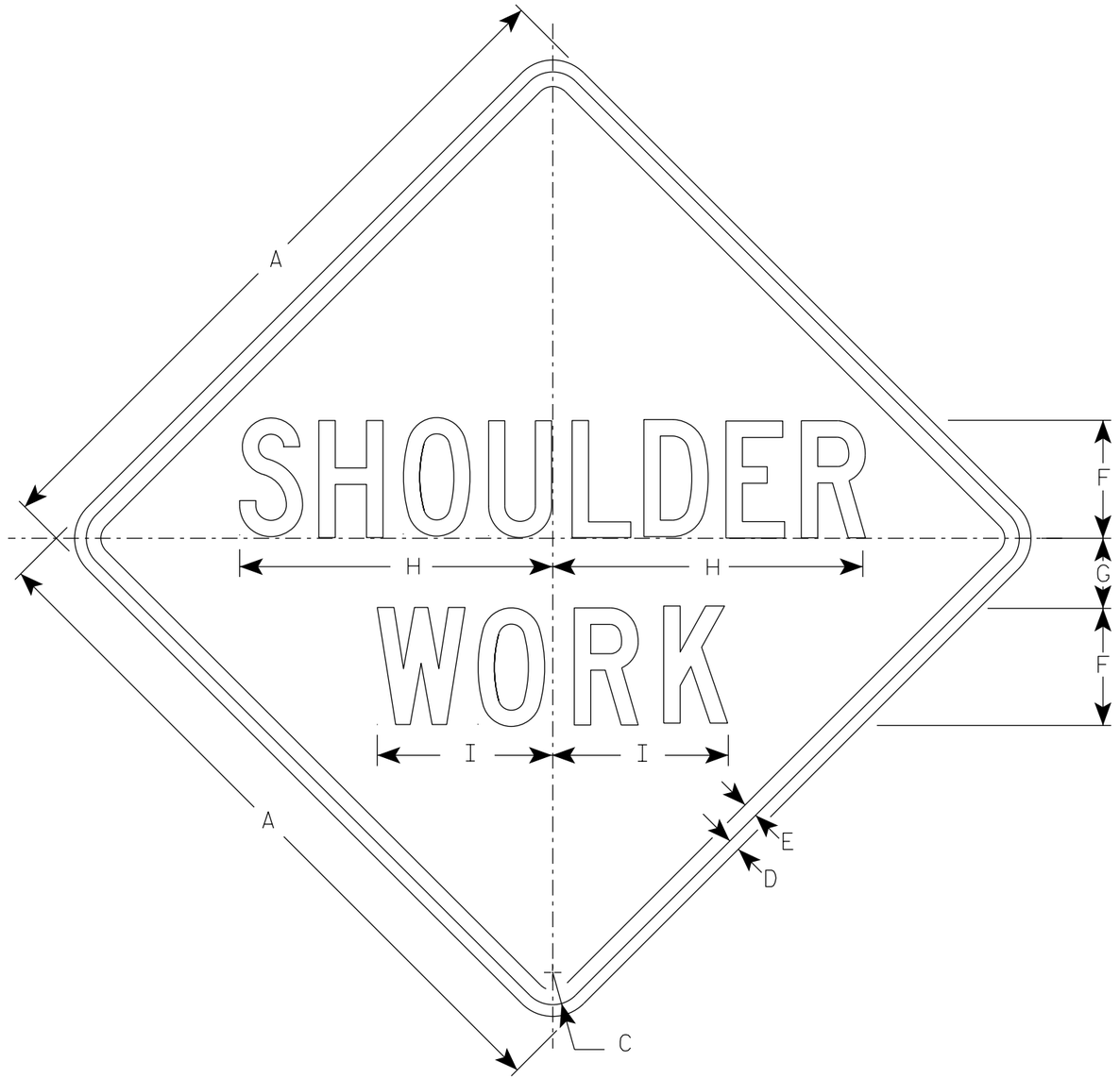
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 1129	E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W2058.DGN PLOT DATE : 18-MAR-2011 12:54 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 9.931739:1.000000

WISDOT/CADDS SHEET 42

7

7



W21-5

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	6	3 1/2	16	9																		9.0
2S	48		2 1/4	3/4	1	8	5	21 3/8	11 1/4																		16.0
2M	48		2 1/4	3/4	1	8	5	21 3/8	11 1/4																		16.0
3	48		2 1/4	3/4	1	8	5	21 3/8	11 1/4																		16.0
4	48		2 1/4	3/4	1	8	5	21 3/8	11 1/4																		16.0
5	48		2 1/4	3/4	1	8	5	21 3/8	11 1/4																		16.0

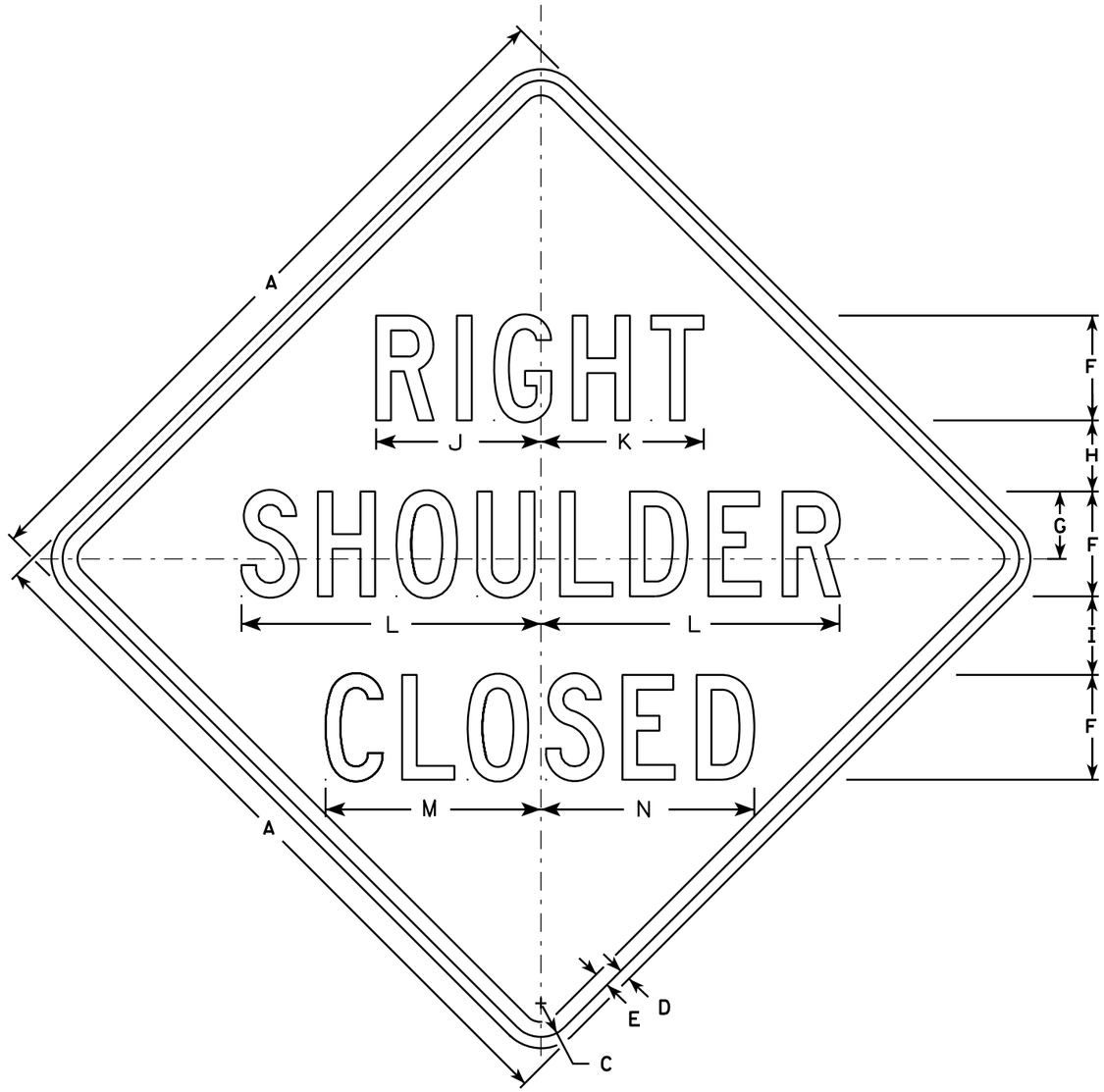
STANDARD SIGN
W21-5

WISCONSIN DEPT OF TRANSPORTATION

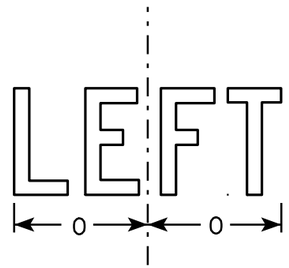
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/30/2020 PLATE NO. W21-5.6

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 1130	E



W21-5A



W21-5AL

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	3 3/8	3 1/2	4	7 7/8	7 3/4	14 1/4	10 1/4	10 1/8	6 1/4												9.0
2S	48		2 1/4	3/4	1	7	4 1/2	4 3/4	5 1/4	11	10 7/8	20	14 3/8	14 1/4	8 3/4												16.0
2M	48		2 1/4	3/4	1	7	4 1/2	4 3/4	5 1/4	11	10 7/8	20	14 3/8	14 1/4	8 3/4												16.0
3	48		2 1/4	3/4	1	7	4 1/2	4 3/4	5 1/4	11	10 7/8	20	14 3/8	14 1/4	8 3/4												16.0
4	48		2 1/4	3/4	1	7	4 1/2	4 3/4	5 1/4	11	10 7/8	20	14 3/8	14 1/4	8 3/4												16.0
5	48		2 1/4	3/4	1	7	4 1/2	4 3/4	5 1/4	11	10 7/8	20	14 3/8	14 1/4	8 3/4												16.0

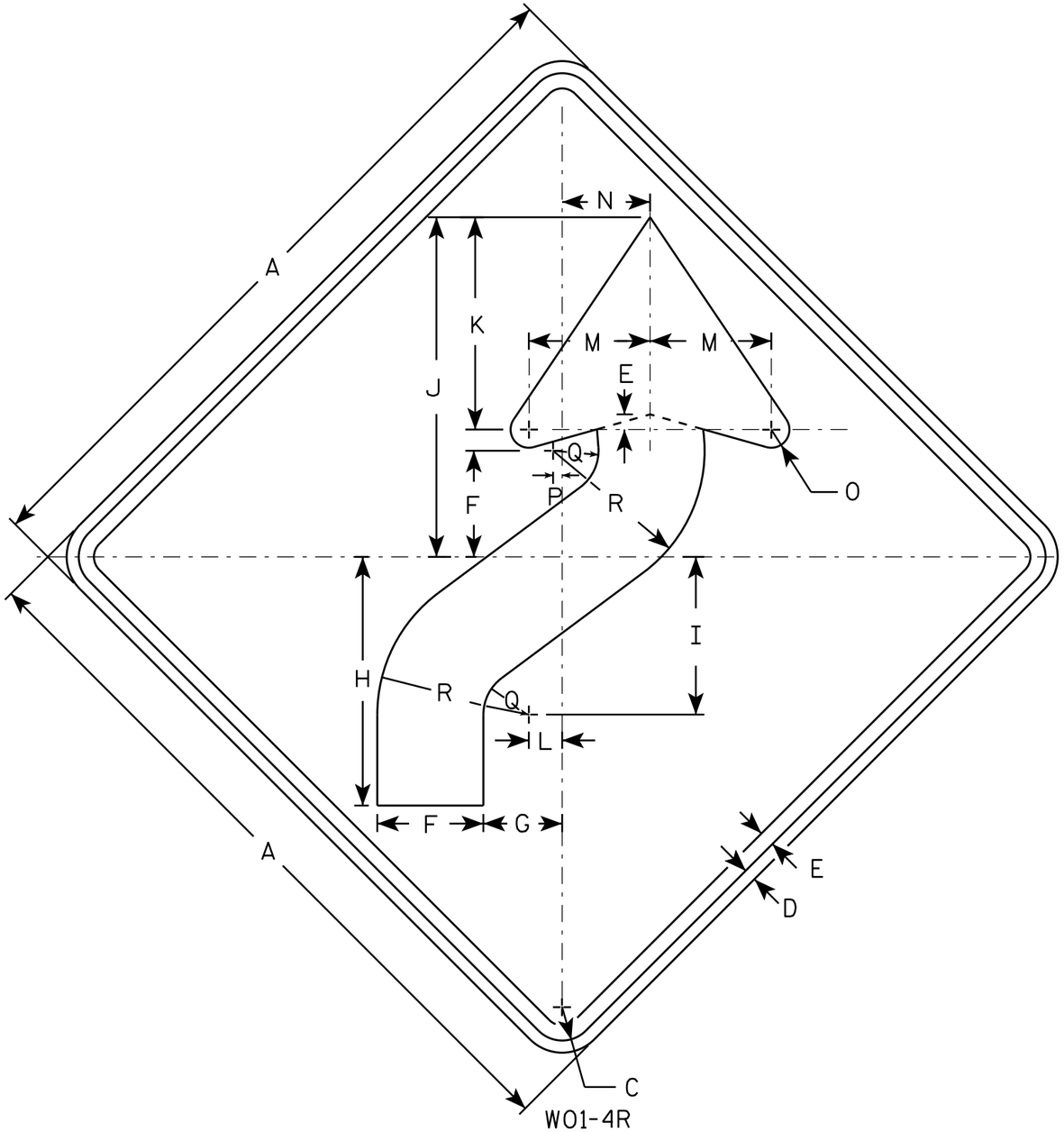
STANDARD SIGN
W21-5A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/21/11 PLATE NO. W21-5A.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 1131 | E



WO1-4R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. WO1-4L is the same as WO1-4R except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
2S	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
2M	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
3	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
4	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
5	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0

STANDARD SIGN
WO1-4

WISCONSIN DEPT OF TRANSPORTATION

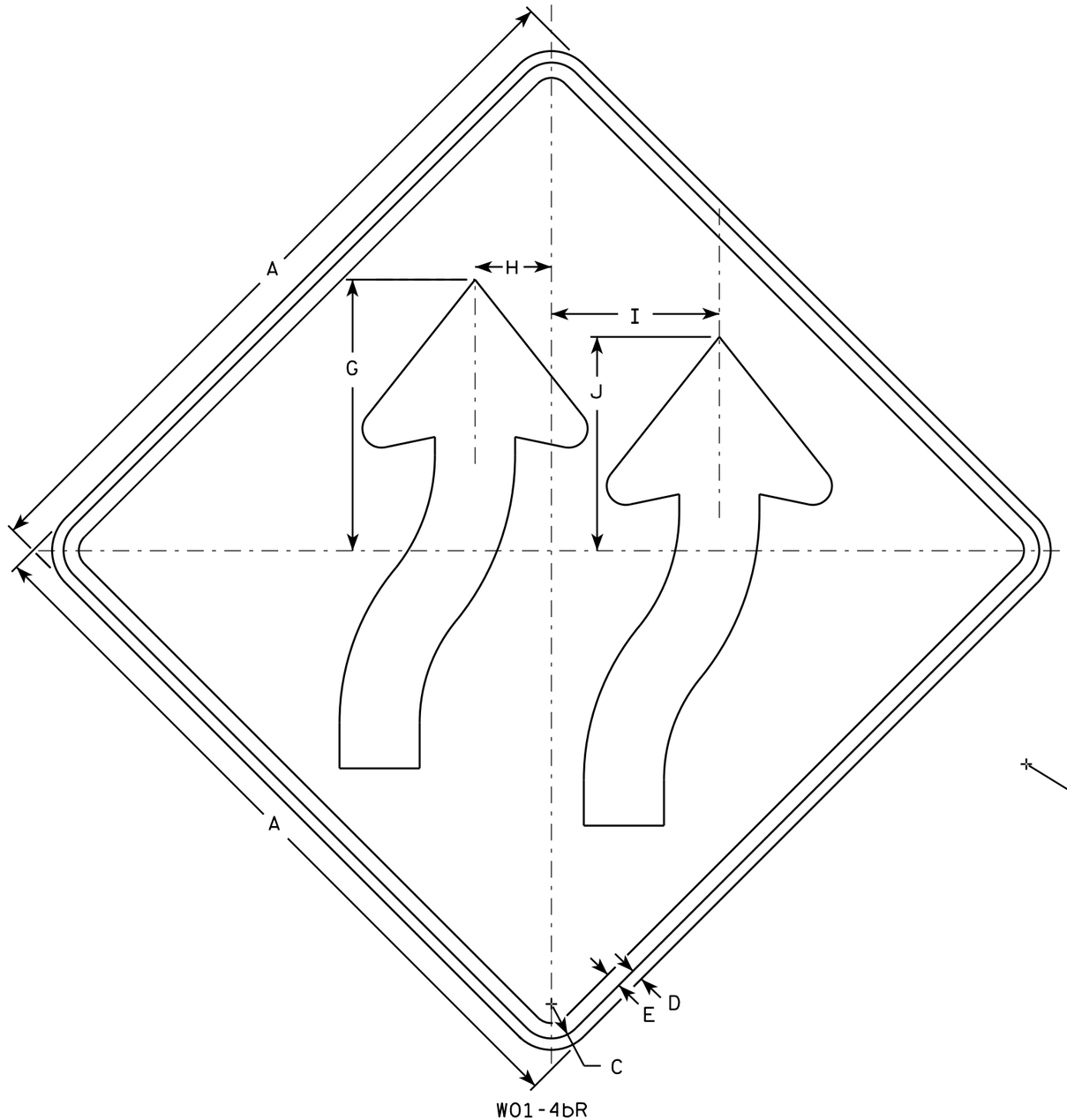
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE NO WO1-4.1

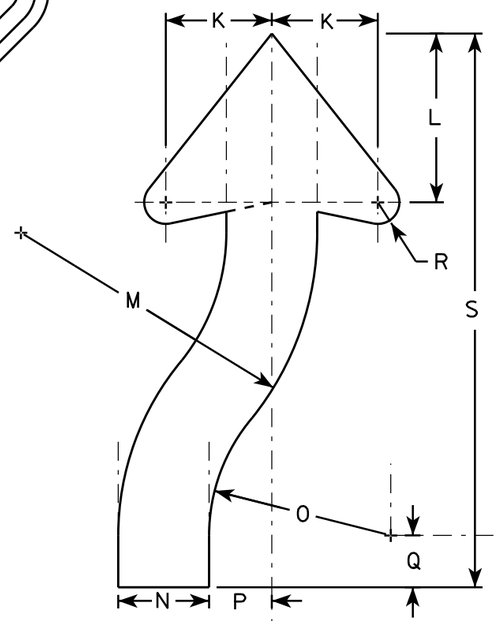
1132

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\WO14.DGN PLOT DATE : 28-FEB-2014 11:35 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 6.755110:1.000000
WISDOT/CADDS SHEET 42



W01-4bR



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W01-4bL is the same as W014-bR exept arrows are reversed along the vertical centerline

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4		13 3/8	3 3/4	8 1/4	10 1/2	4 5/8	7 3/8	12 7/8	3 7/8	7 7/8	2 3/4	2 1/4	7/8	24								9.0
2S	48		2 1/4	3/4	1		17 3/4	5	11	14	6 1/8	9 3/4	17 1/8	5 1/4	10 1/2	3 5/8	3	1 1/4	32								16.0
2M	48		2 1/4	3/4	1		17 3/4	5	11	14	6 1/8	9 3/4	17 1/8	5 1/4	10 1/2	3 5/8	3	1 1/4	32								16.0
3	48		2 1/4	3/4	1		17 3/4	5	11	14	6 1/8	9 3/4	17 1/8	5 1/4	10 1/2	3 5/8	3	1 1/4	32								16.0
4	48		2 1/4	3/4	1		17 3/4	5	11	14	6 1/8	9 3/4	17 1/8	5 1/4	10 1/2	3 5/8	3	1 1/4	32								16.0
5	48		2 1/4	3/4	1		17 3/4	5	11	14	6 1/8	9 3/4	17 1/8	5 1/4	10 1/2	3 5/8	3	1 1/4	32								16.0

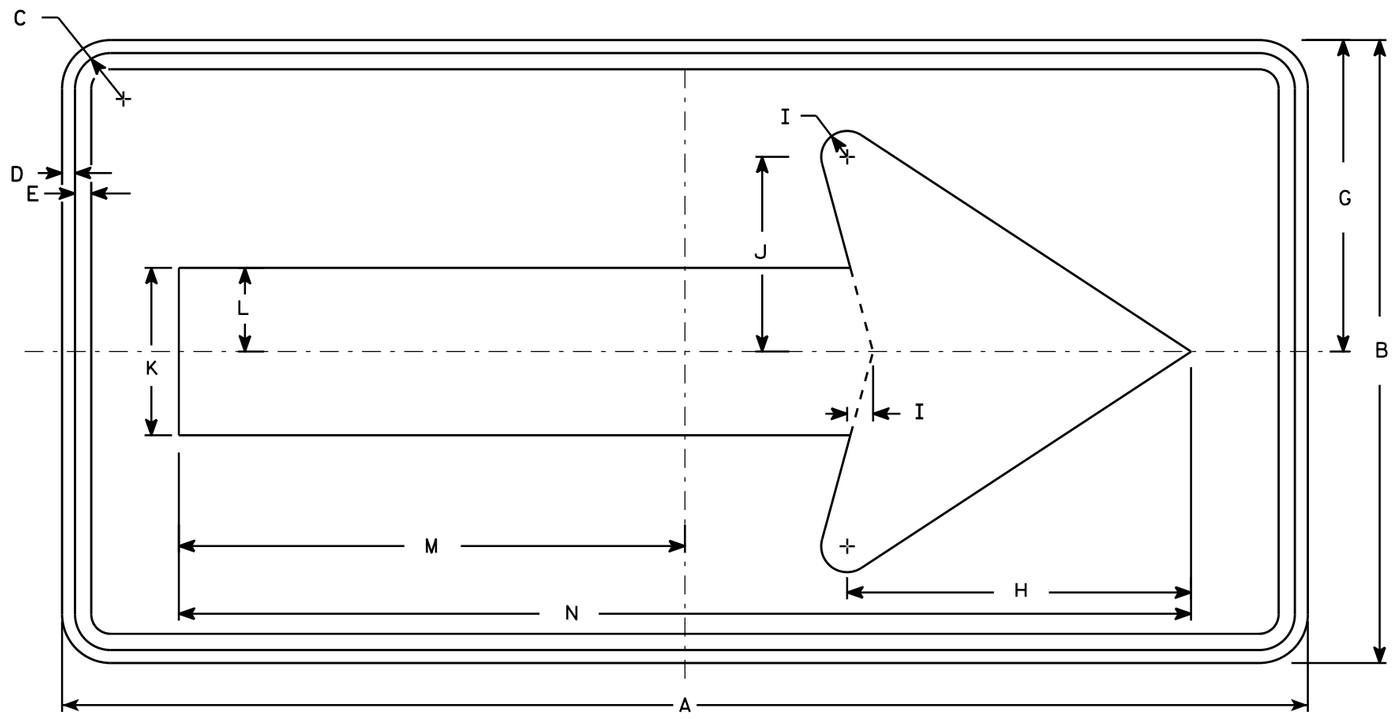
STANDARD SIGN
W01-4b

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE NO. W01-4b.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



W01-6

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
5	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5

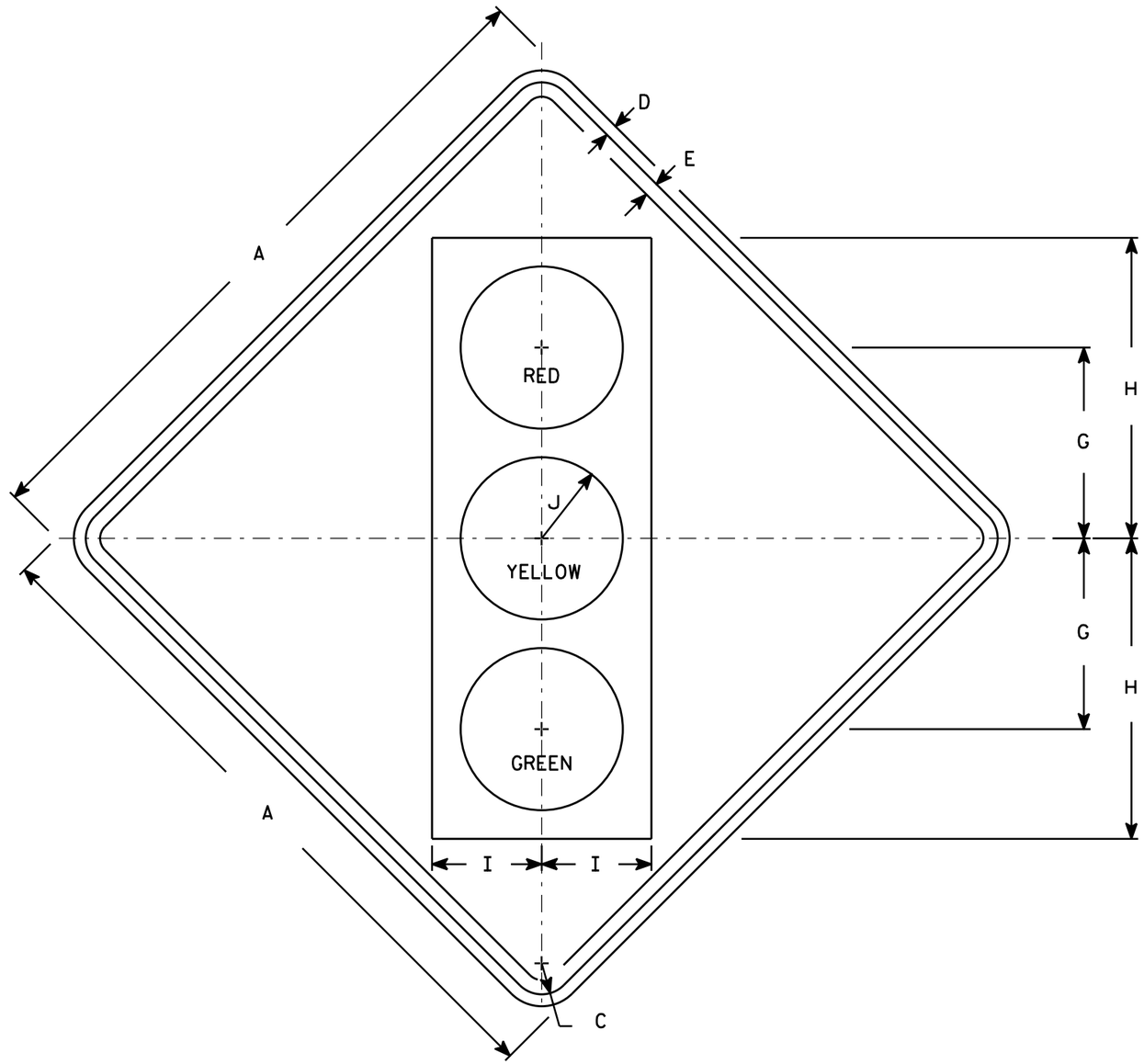
STANDARD SIGN
W01-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE NO. W01-6.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



W03-3

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Symbol and border are non-reflective black.
   Top circle - Type H Reflectorized Red
   Center circle - Same as background
   Bottom circle - Type H Reflectorized Green

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
2S	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0
2M	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0
3	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0
4	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0
5	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0

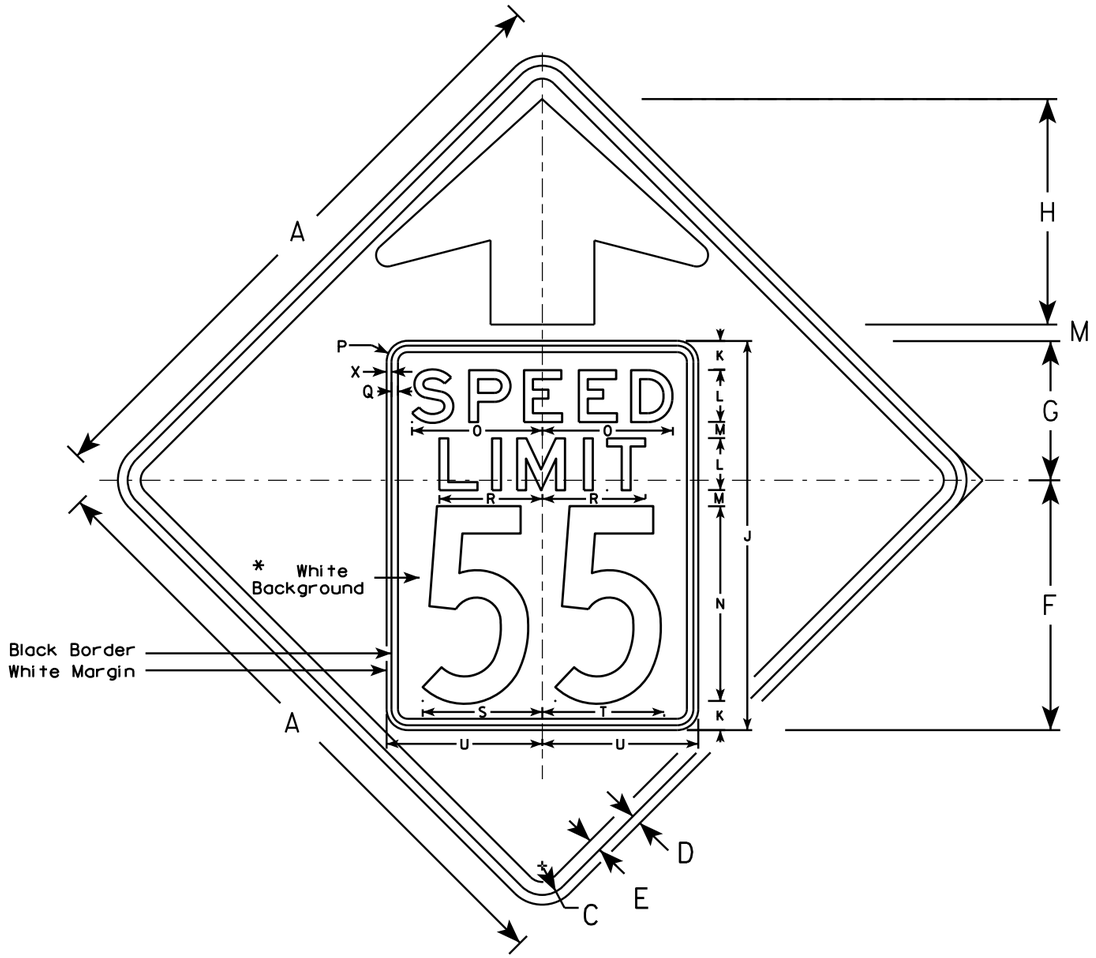
STANDARD SIGN
W03-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE 1135 "03-3.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

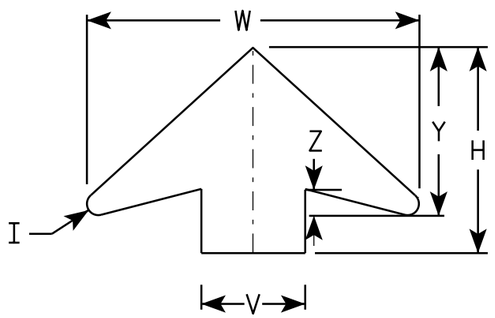


W03-5

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color: *
   Background - ORANGE*
   Message - BLACK
3. Message Series - C for numbers Series E for wording
4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance

*Speed Limit Sign shall have a White Background



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
2S	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
2M	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
3	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
4	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
5	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0

STANDARD SIGN
W03-5

WISCONSIN DEPT OF TRANSPORTATION

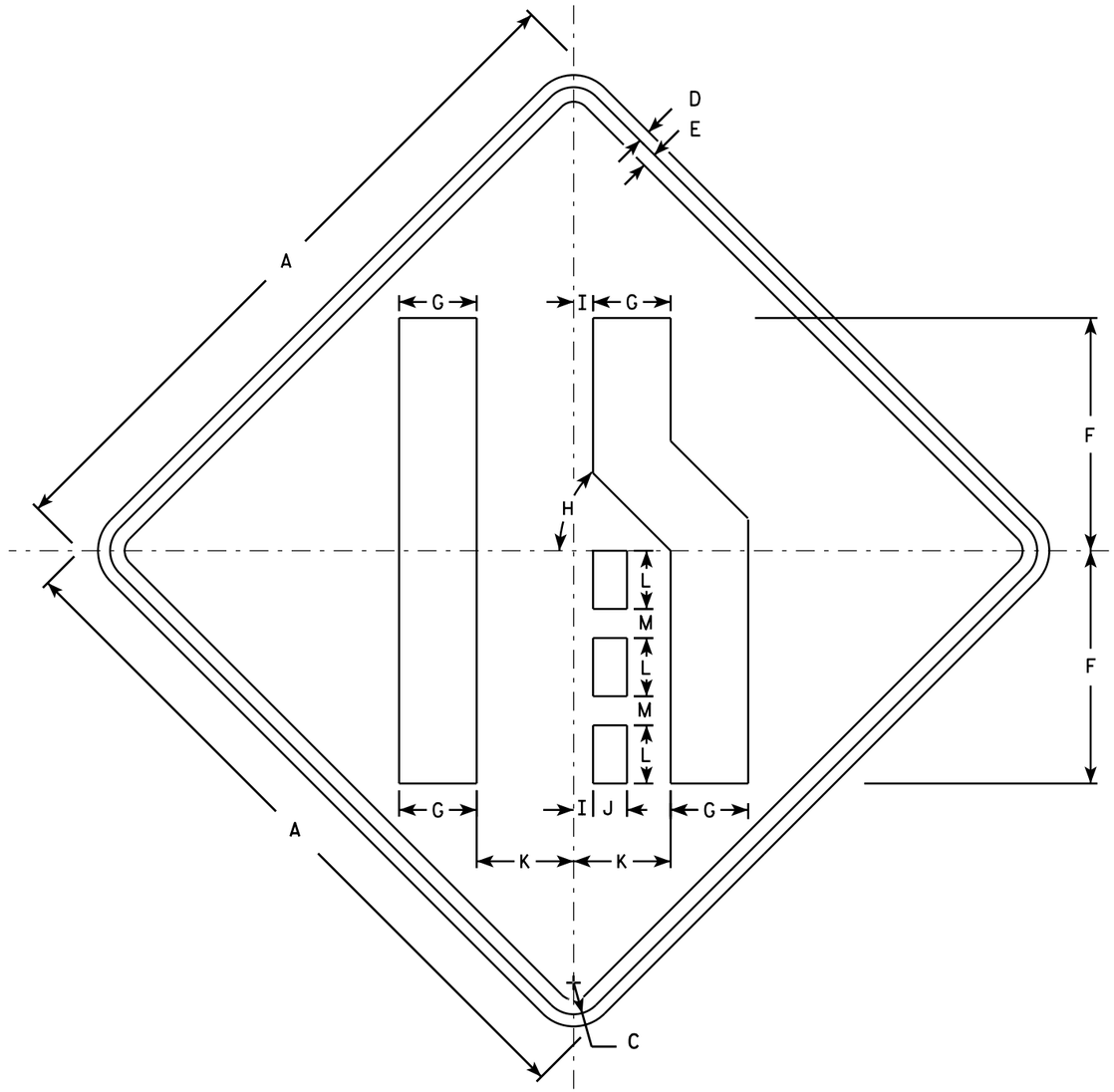
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE W03-5.1

PROJECT NO: SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W035.DGN PLOT DATE : 20-NOV-2013 11:32 PLOT BY : mscsja

WISDOT/CADDS SHEET 42



W04-2R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W04-2L is the same as W04-2R except the symbol is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
2S	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
2M	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
3	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
4	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
5	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0

STANDARD SIGN
W04-2

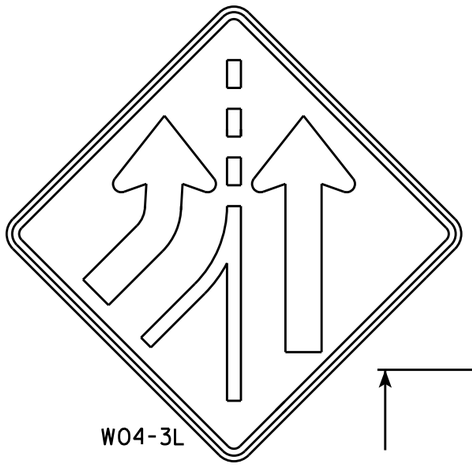
WISCONSIN DEPT OF TRANSPORTATION

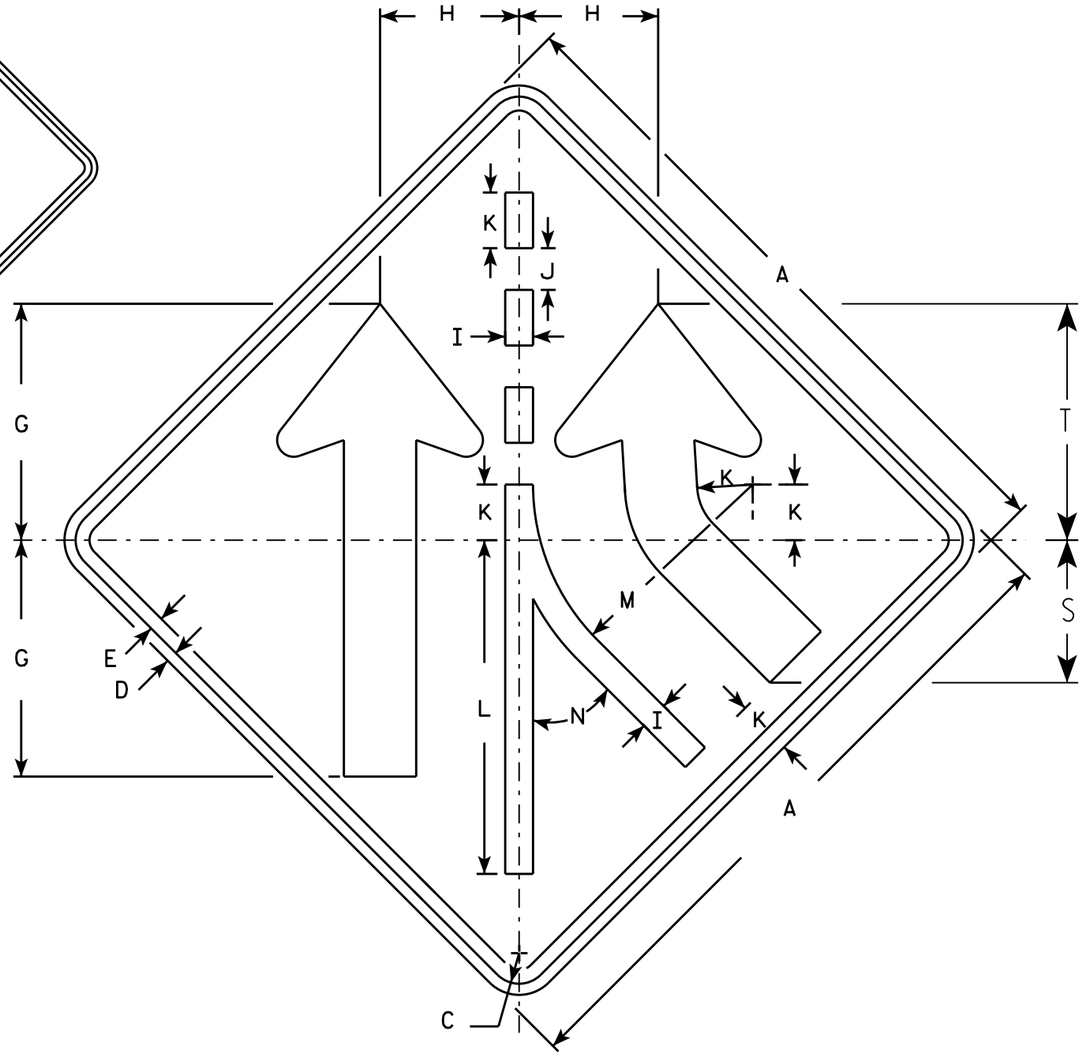
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE 1137 W04-2.1

PROJECT NO:

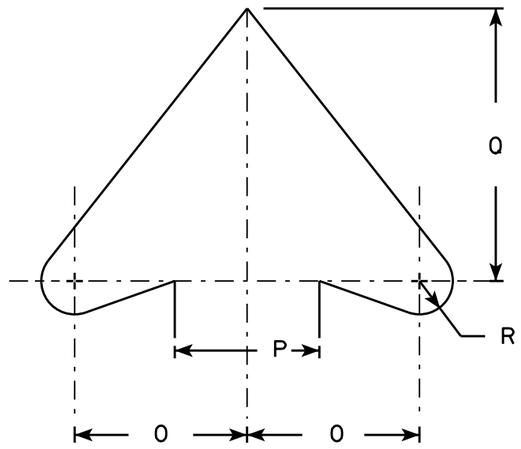
SHEET NO: E





NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W04-3 L is the same as W04-3 R except the arrow is reversed along the vertical centerline.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4		12 3/4	7 1/2	1 1/2	2 1/4	3	18	11 7/8	45°	4 5/8	4	7 3/8	7/8	7 3/4	12 3/4							9.0
2S	48		2 1/4	3/4	1		17	10	2	3	4	24	15 3/4	45°	6 1/4	5 1/2	9 7/8	1 1/4	10 1/4	17							16.0
2M	48		2 1/4	3/4	1		17	10	2	3	4	24	15 3/4	45°	6 1/4	5 1/2	9 7/8	1 1/4	10 1/4	17							16.0
3	48		2 1/4	3/4	1		17	10	2	3	4	24	15 3/4	45°	6 1/4	5 1/2	9 7/8	1 1/4	10 1/4	17							16.0
4	48		2 1/4	3/4	1		17	10	2	3	4	24	15 3/4	45°	6 1/4	5 1/2	9 7/8	1 1/4	10 1/4	17							16.0
5	48		2 1/4	3/4	1		17	10	2	3	4	24	15 3/4	45°	6 1/4	5 1/2	9 7/8	1 1/4	10 1/4	17							16.0

STANDARD SIGN

W0433

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

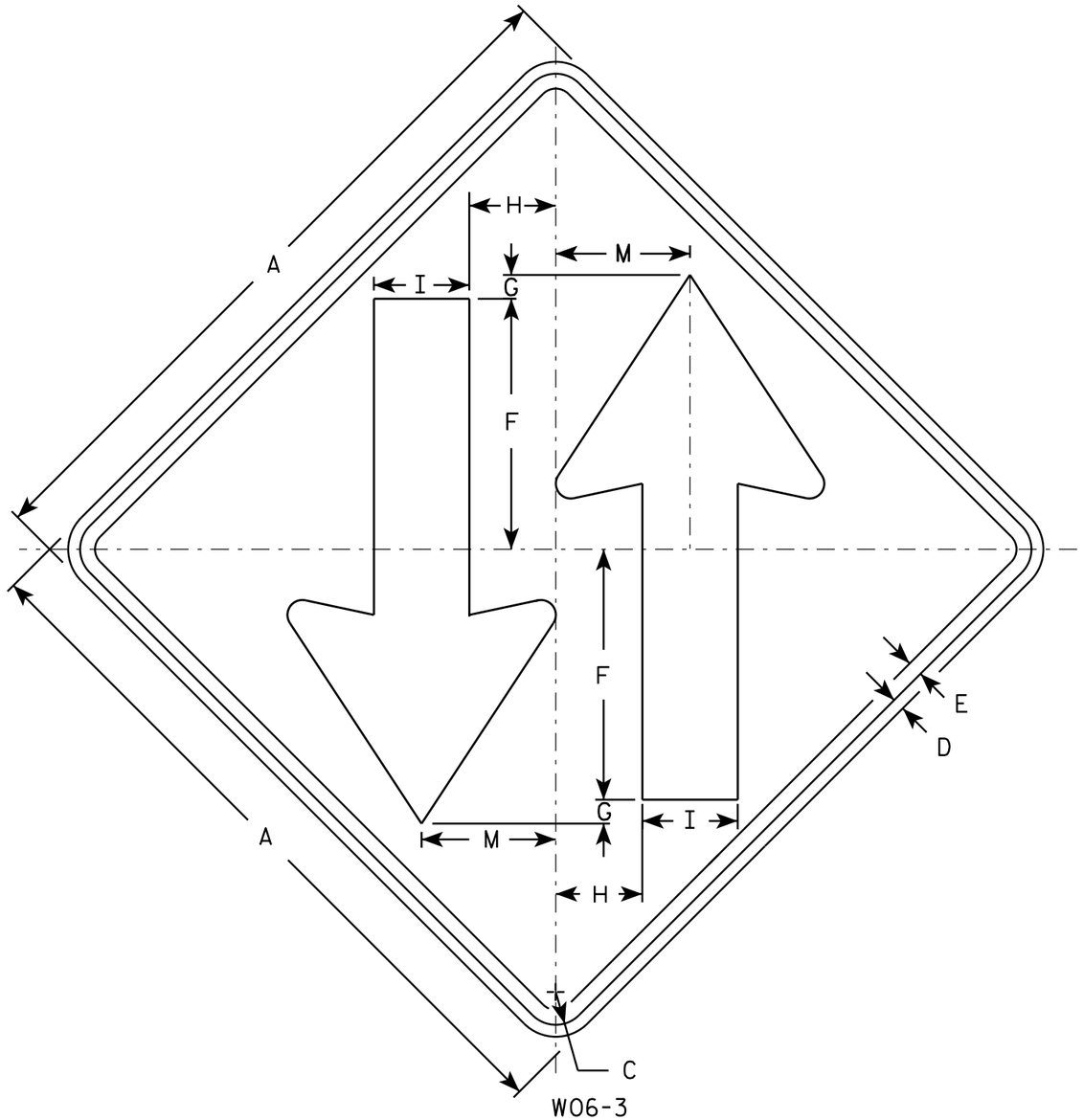
DATE 11/20/13 PLATE W04-3.1

PROJECT NO: SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W043.DGN PLOT DATE : 20-NOV-2013 11:49 PLOT BY : mscsja 6.810449:1.000000

WISDOT/CADDS SHEET 42

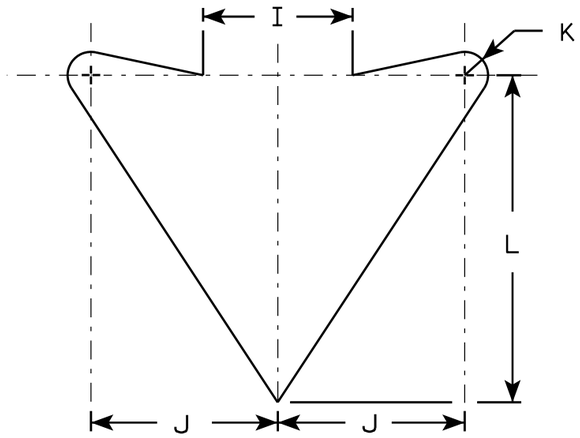
7 7



W06-3

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	12	1	4 1/4	5	6	3/4	10 1/2	6 3/4														9.0
2S	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0
2M	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0
3	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0
4	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0
5	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0

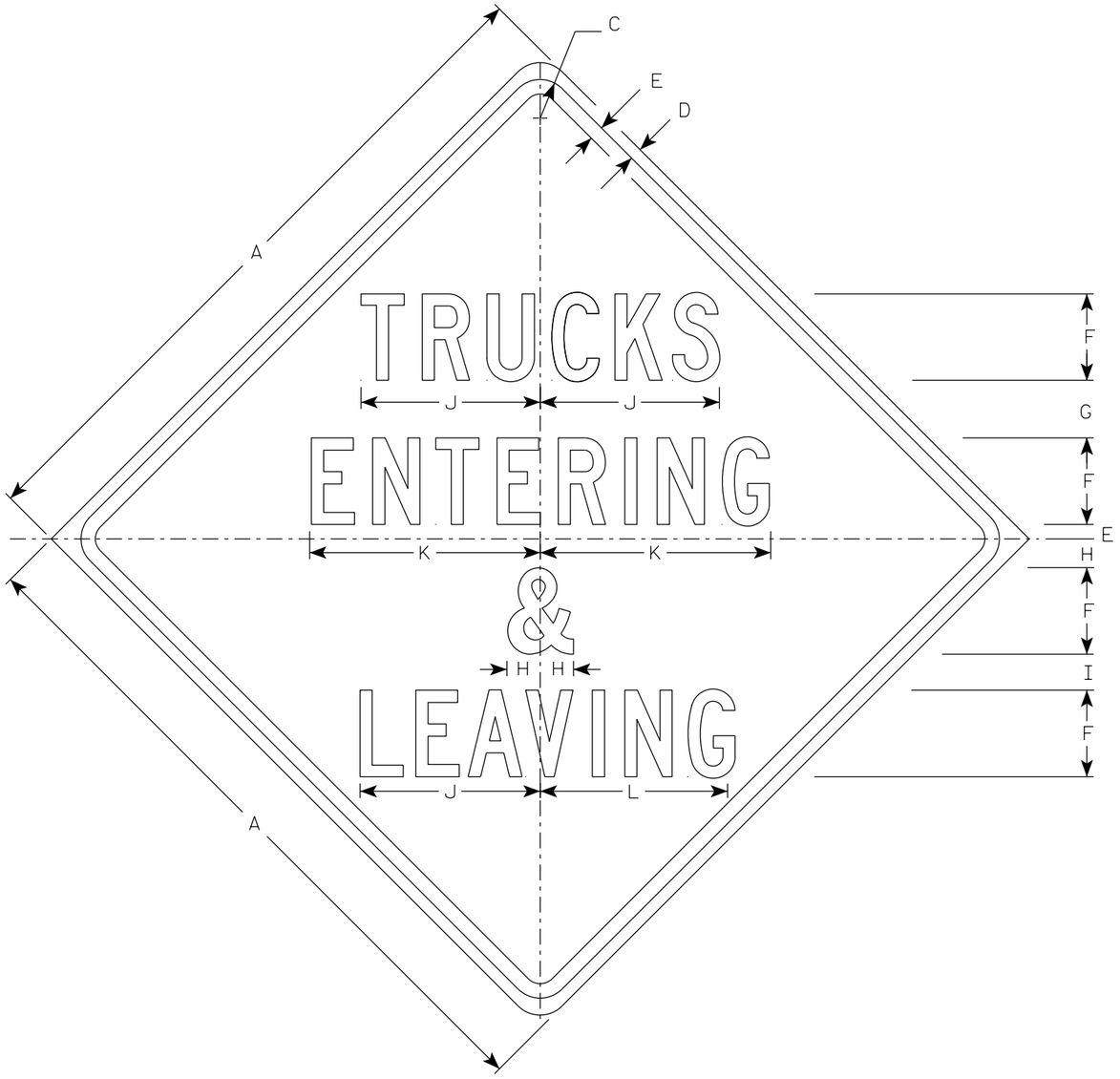
STANDARD SIGN
W06-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE 1139 W06-3.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



W08-6A

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 3/8	1/2	5/8	4 1/2	3	1 1/2	1 7/8	9 3/8	12	9 3/4															9
2S	48		2 1/4	3/4	1	6	4	2	2 1/2	12 1/2	16	13															16
2M	48		2 1/4	3/4	1	6	4	2	2 1/2	12 1/2	16	13															16
3	48		2 1/4	3/4	1	6	4	2	2 1/2	12 1/2	16	13															16
4	48		2 1/4	3/4	1	6	4	2	2 1/2	12 1/2	16	13															16
5	48		2 1/4	3/4	1	6	4	2	2 1/2	12 1/2	16	13															16

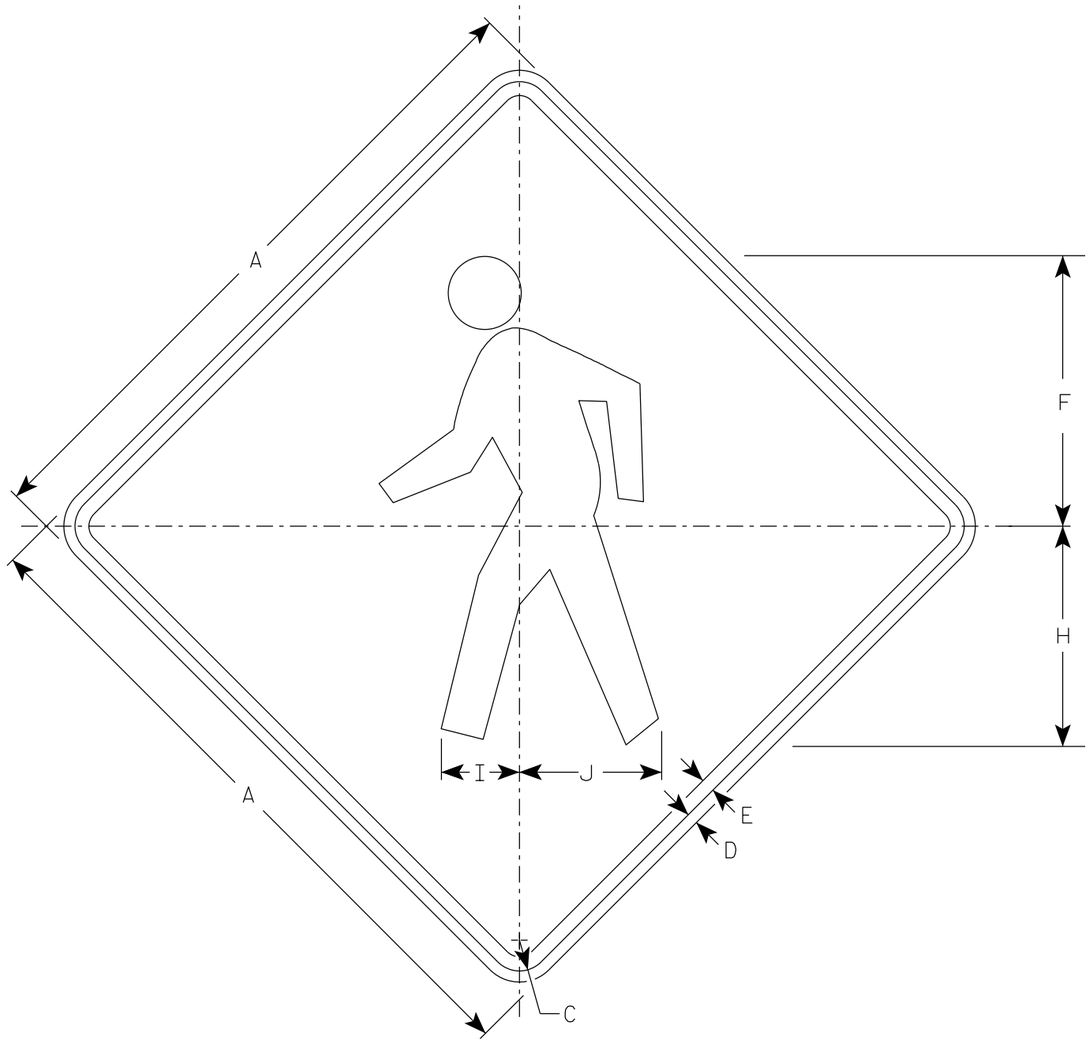
STANDARD SIGN
W08-6A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/15/2020 PLATE NO. W08-6A.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 1140 E



WO11-2

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	14 1/2		11 7/8	4 1/4	7 5/8																	9.0
2S	48		2 1/4	3/4	1	19 3/8		15 3/4	5 5/8	10 1/4																	16.0
2M	48		2 1/4	3/4	1	19 3/8		15 3/4	5 5/8	10 1/4																	16.0
3	48		2 1/4	3/4	1	19 3/8		15 3/4	5 5/8	10 1/4																	16.0
4	48		2 1/4	3/4	1	19 3/8		15 3/4	5 5/8	10 1/4																	16.0
5																											

STANDARD SIGN

WO11-2

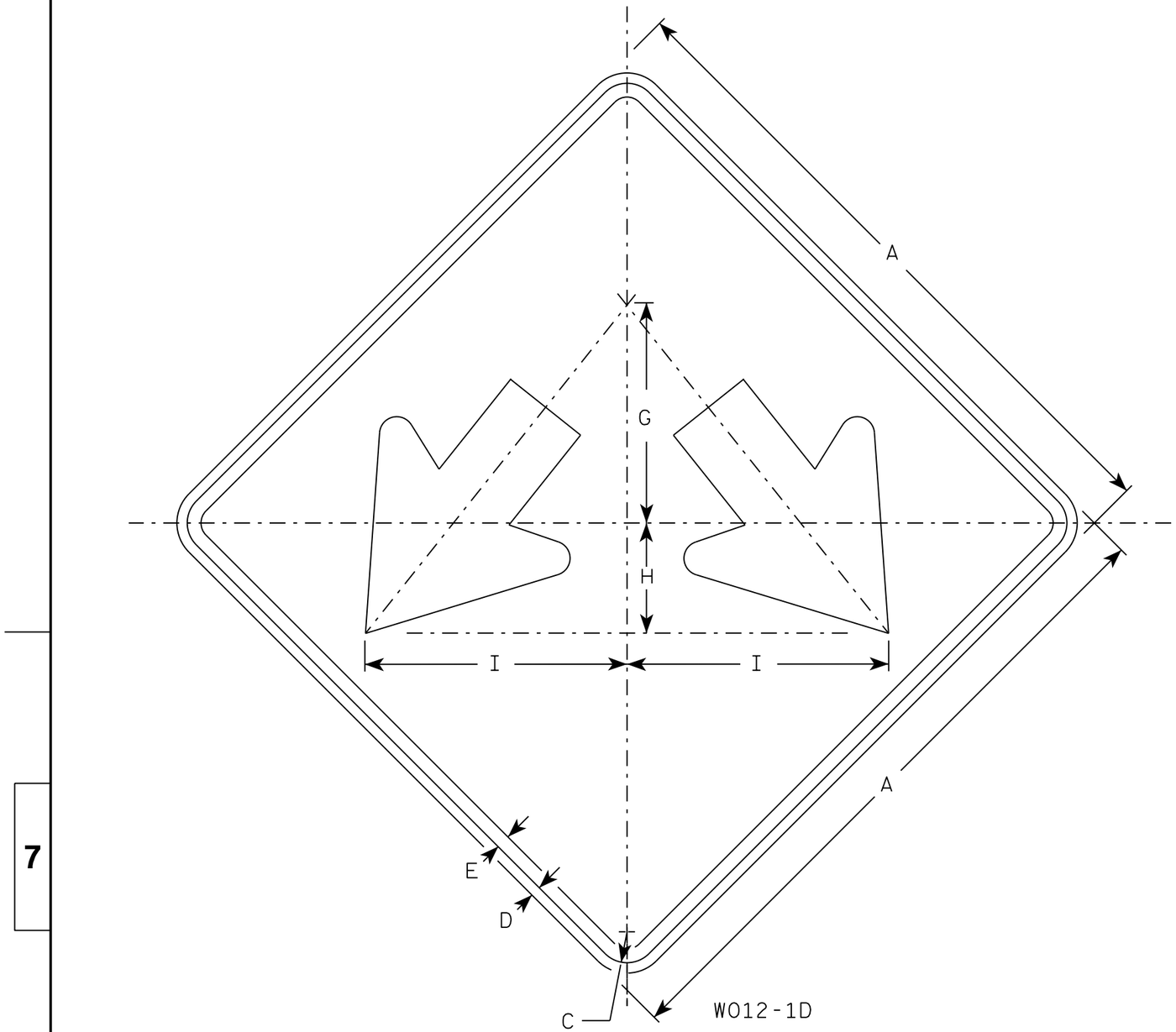
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

for State Traffic Engineer

DATE 4/8/2020 PLATE NO. WO11-2.1

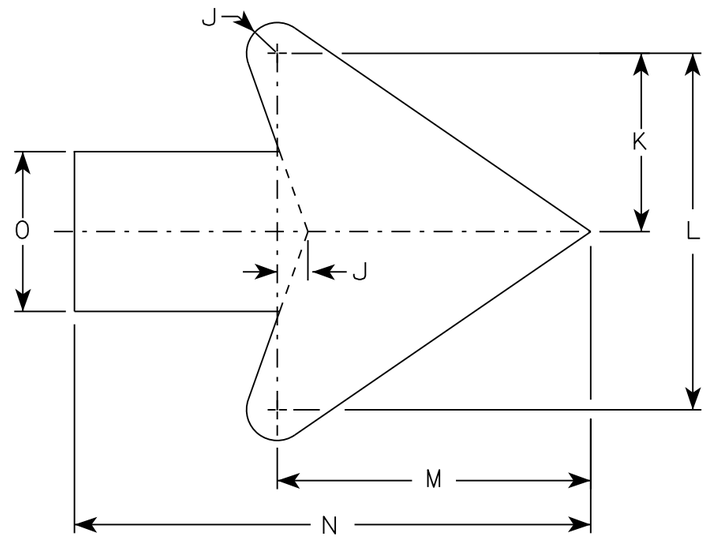
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 1141	E



W012-1D

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
2S	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
2M	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
3	30		1 3/8	1/2	5/8		10	5	11 7/8	3/4	4 1/2	9	7 7/8	13	4												6.25
4	36		1 3/8	1/2	5/8		12	6	14 1/4	1	5 1/2	10 7/8	9 5/8	15 3/4	4 3/4												9.0
5	36		1 3/8	1/2	5/8		12	6	14 1/4	1	5 1/2	10 7/8	9 5/8	15 3/4	4 3/4												9.0

STANDARD SIGN
W012-1D

WISCONSIN DEPT OF TRANSPORTATION

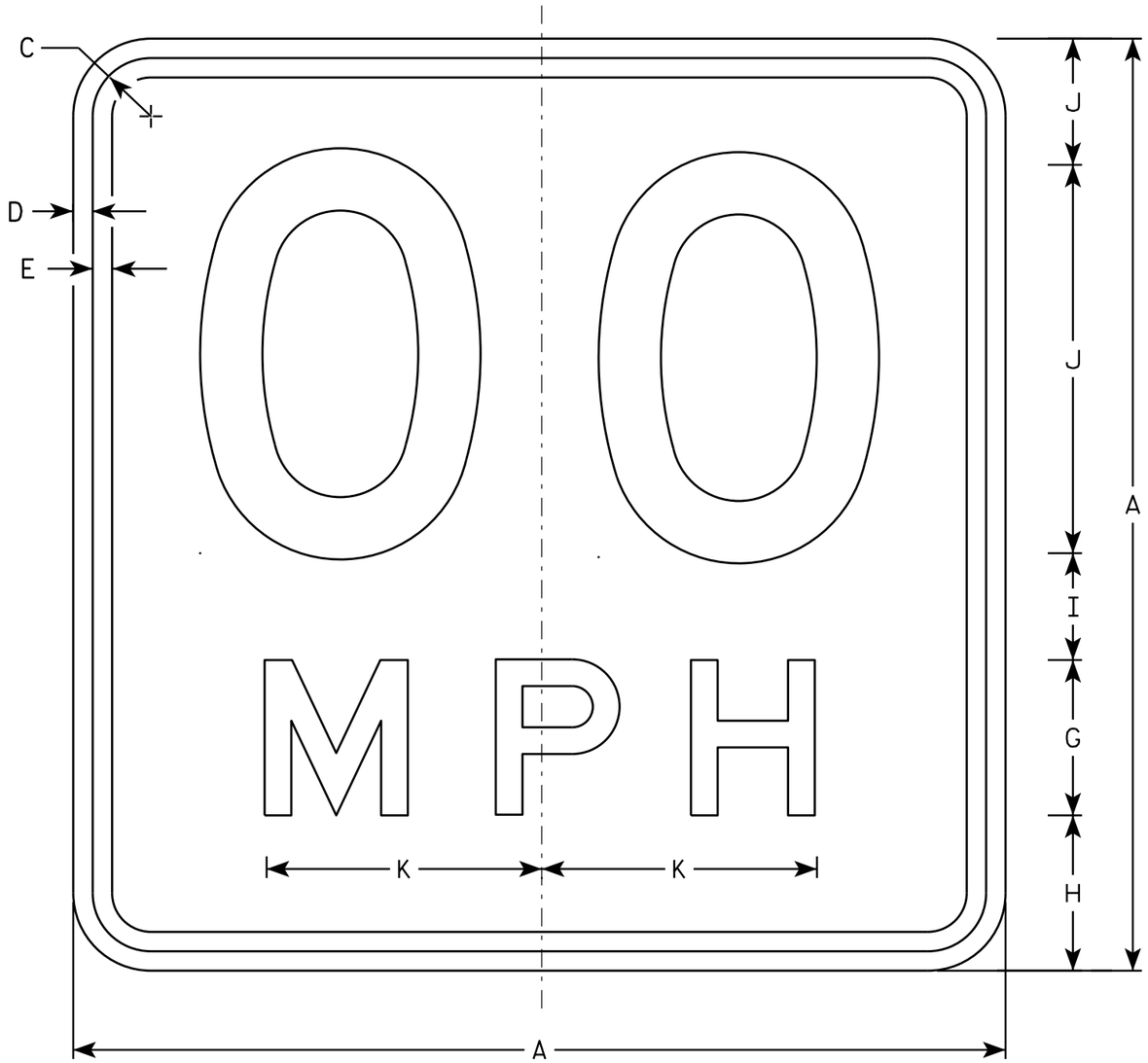
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/28/16 PLATE NO W012-1D.2

1142

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W0121D.DGN PLOT DATE : 11-AUG-2016 11:28 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 4.621375:1.000000



W013-1

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See Note 6
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically space about centerline to achieve proper balance.
6. Line 1 is Series D
   Line 2 is Series E

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	10	4	4	2 3/4	3 1/4	7 1/8																4.00
2S	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
2M	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
3	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
4	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
5	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00

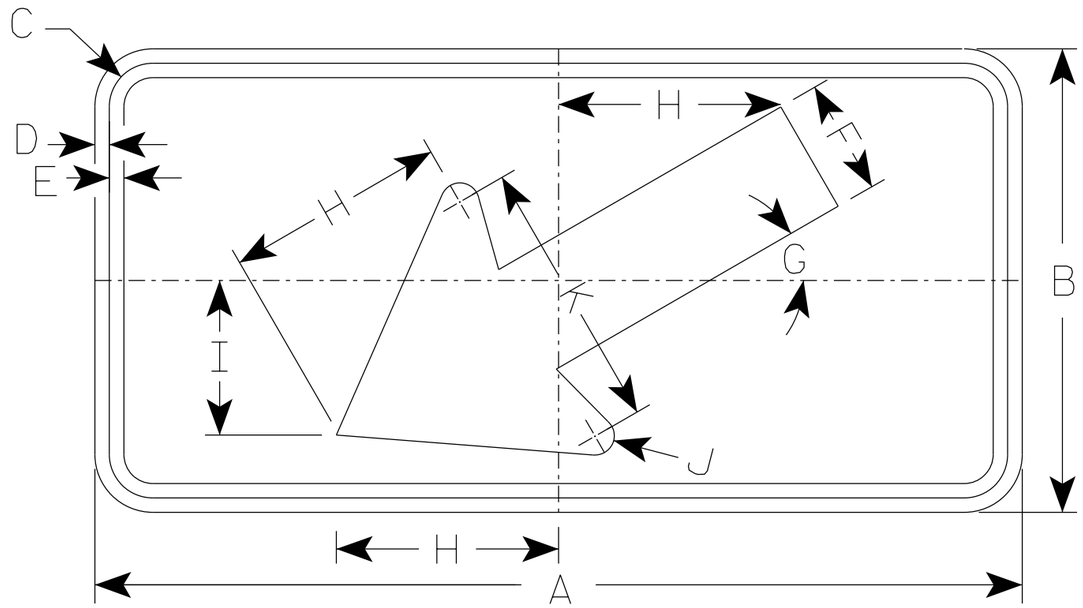
STANDARD SIGN
W013-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/21/13 PLATE 1143 W013-1.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



W016-7L

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded but corners shall be rounded when base material is metal.
4. W016-7R is the same as W016-L except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30	18	1 1/8	3/8	1/2	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
2S	48	24	1 3/8	1/2	5/8	6	30°	11 1/2	8	1	14																8.0
2M	48	24	1 3/8	1/2	5/8	6	30°	11 1/2	8	1	14																8.0
3	48	24	1 3/8	1/2	5/8	6	30°	11 1/2	8	1	14																8.0
4	48	24	1 3/8	1/2	5/8	6	30°	11 1/2	8	1	14																8.0
5	48	24	1 3/8	1/2	5/8	6	30°	11 1/2	8	1	14																8.0

STANDARD SIGN
W016-7

WISCONSIN DEPT OF TRANSPORTATION

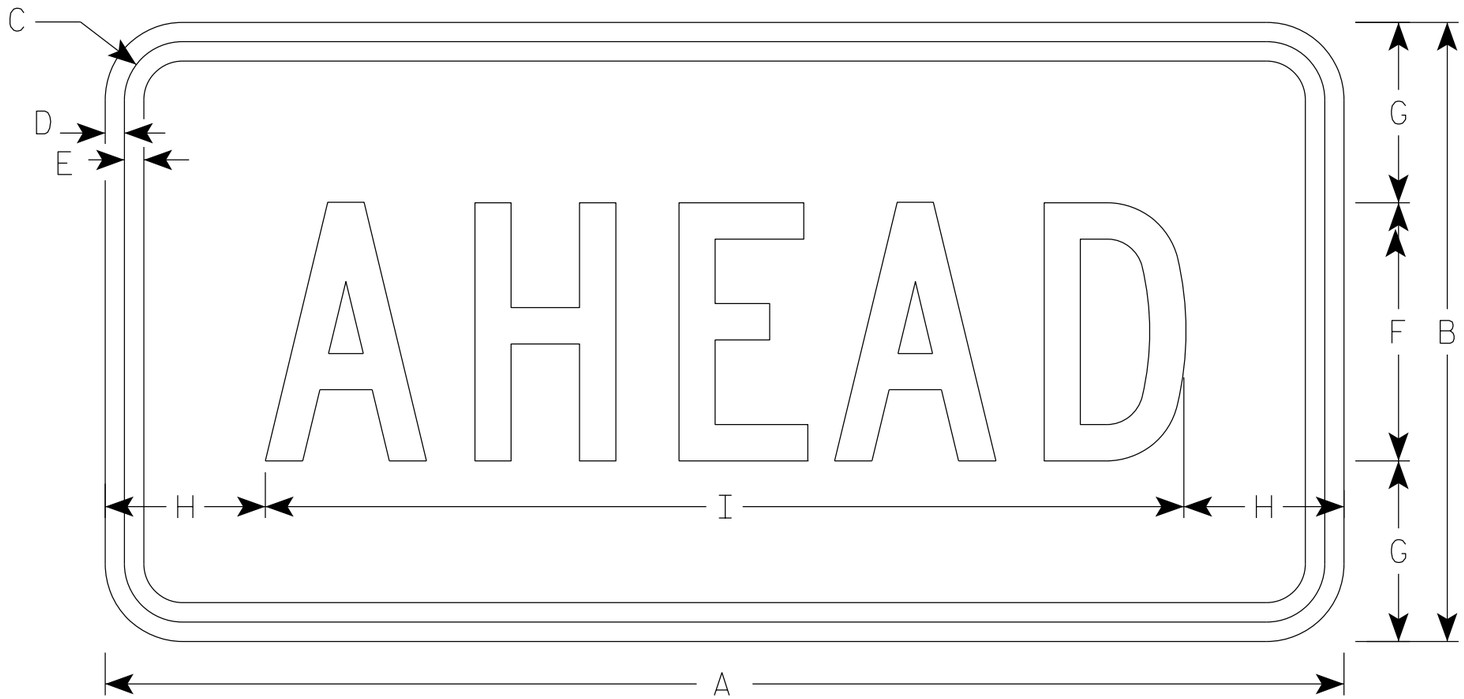
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/16/2021 PLATE NO. W016-7.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 1144	E

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - C



W16-9P

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 1/8	3/8	3/8	5	3 1/2	3 1/8	17 3/4																		2.0
2M	30	18	1 1/8	3/8	1/2	7	5 1/2	2 3/4	24 1/2																		3.75
3	30	18	1 1/8	3/8	1/2	7	3 1/2	2 3/4	24 1/2																		3.75
4	48	24	1 3/8	1/2	5/8	10	7	6 1/8	35 3/4																		8.0
5																											

STANDARD SIGN
W16-9P

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/7/19 PLATE NO. W16-9P.7

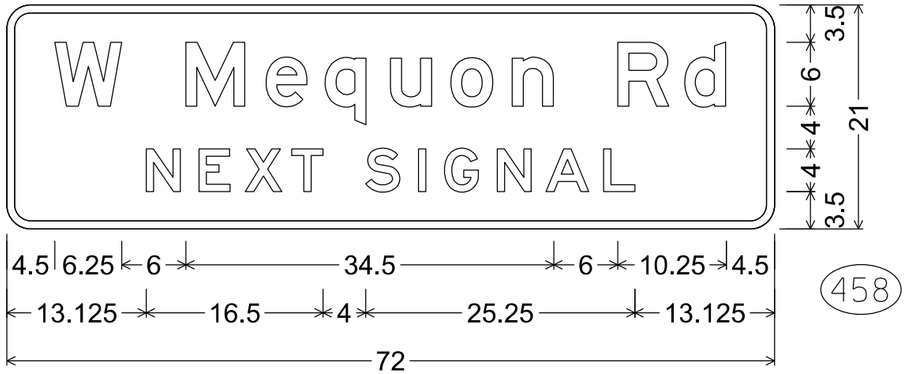
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 1145 E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W169P.DGN PLOT DATE : 07-MAR-2019 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

7

NOTES

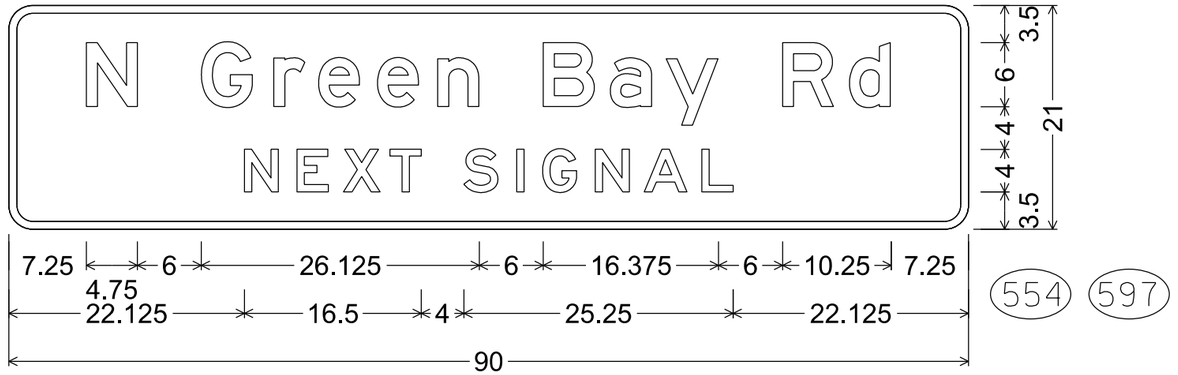
1. All Signs Type II - Type H Reflective
2. Color:
   Background - Green except as noted
   Message - White
3. Message Series - E except as noted



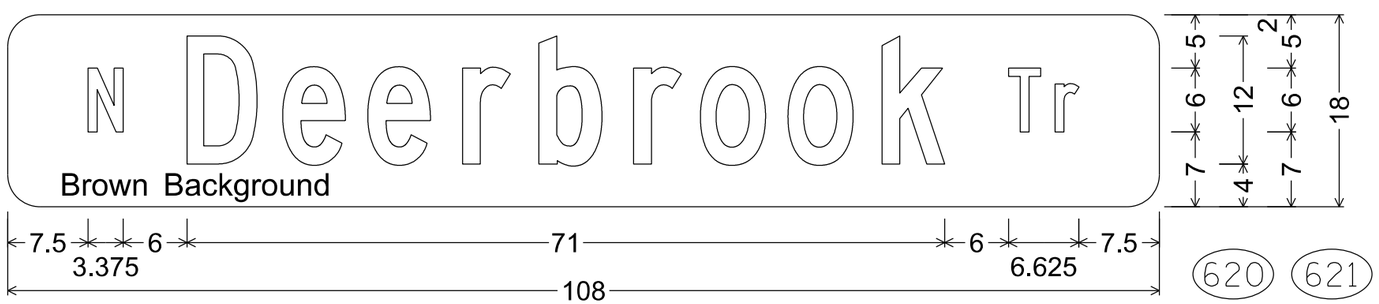
D1-65; 2.250" Radius, 0.750" Border



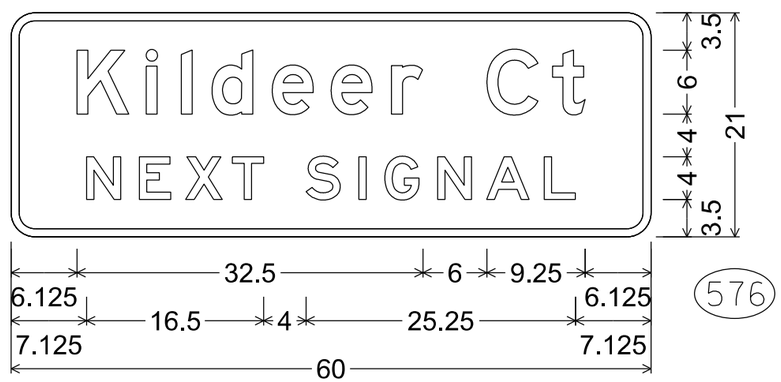
D1-1; 2.250" Radius, 0.750" Border



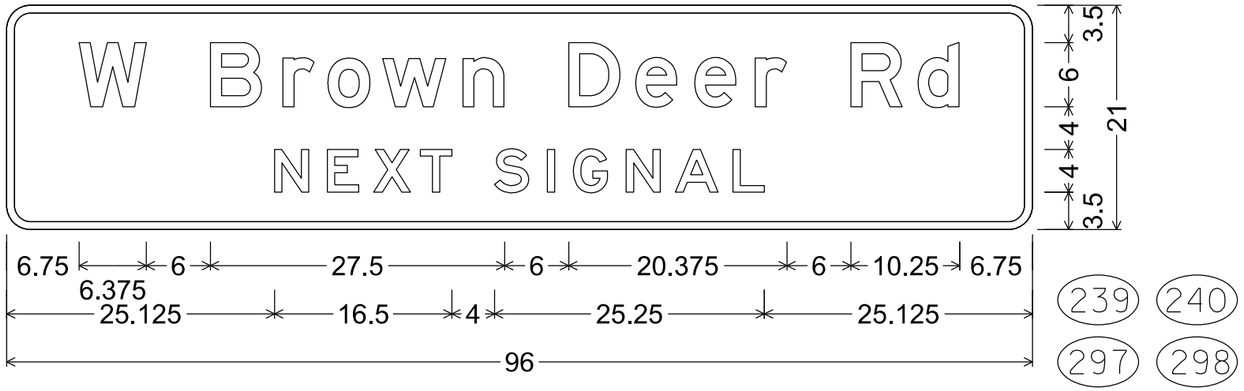
D1-65; 2.250" Radius, 0.750" Border



M1-94H; 3.000" Radius, No border, White on, Brown;
"N", C; "Deerbrook", C; "Tr", C;



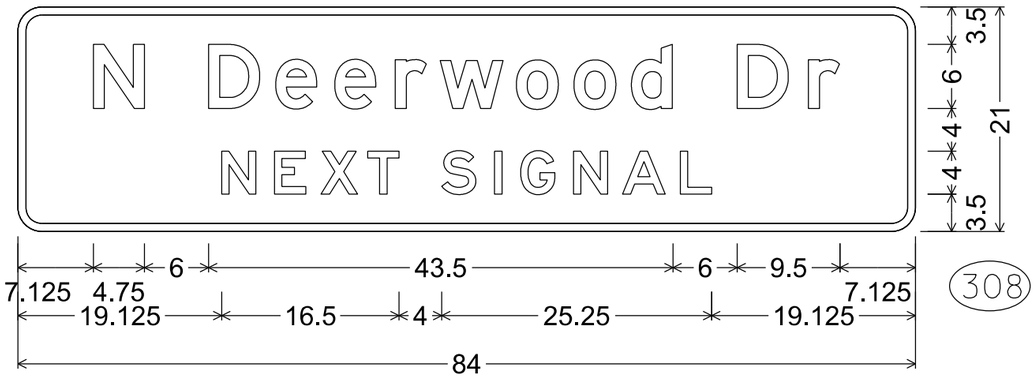
D1-65; 2.250" Radius, 0.750" Border



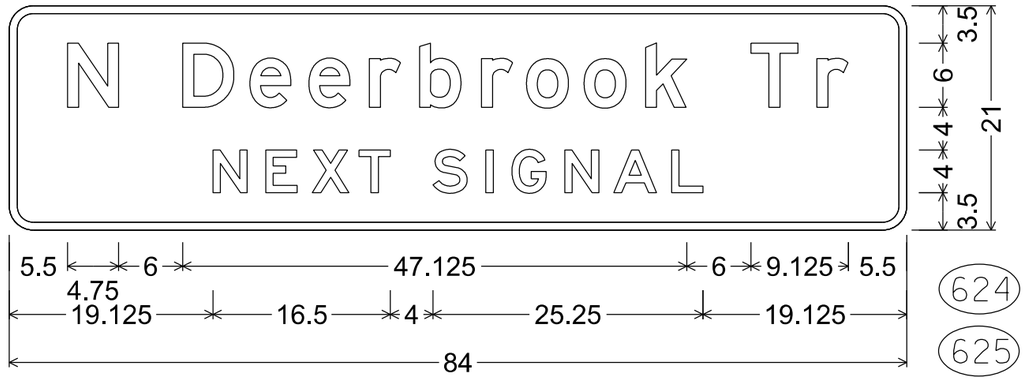
D1-65; 2.250" Radius, 0.750" Border

NOTES

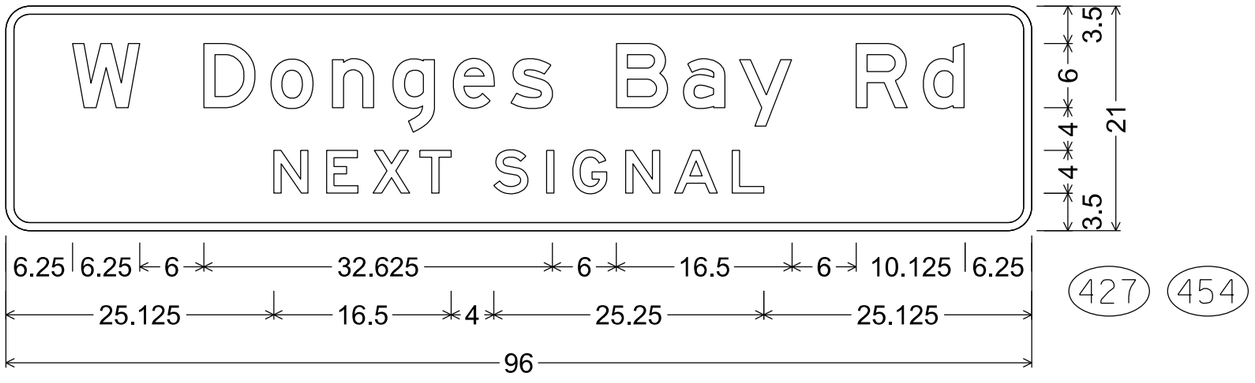
1. All Signs Type II - Type H Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E



D1-65; 2.250" Radius, 0.750" Border



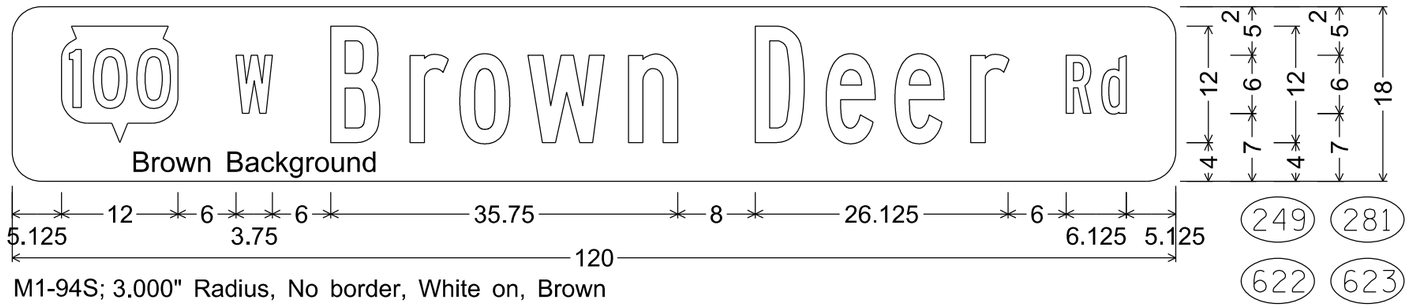
D1-65; 2.250" Radius, 0.750" Border



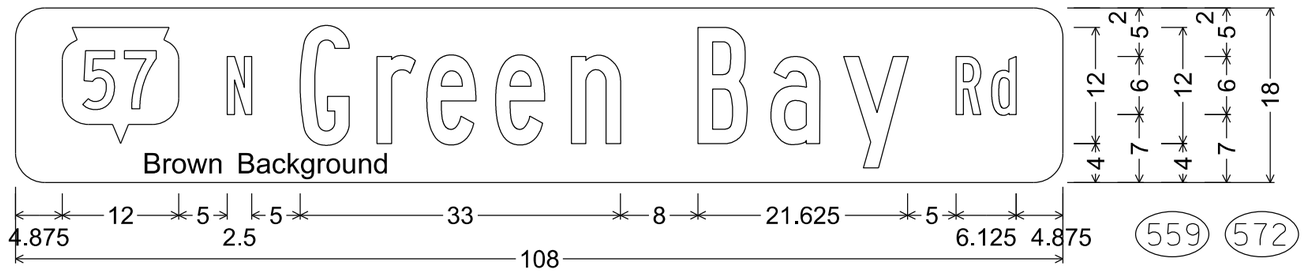
D1-65; 2.250" Radius, 0.750" Border

7

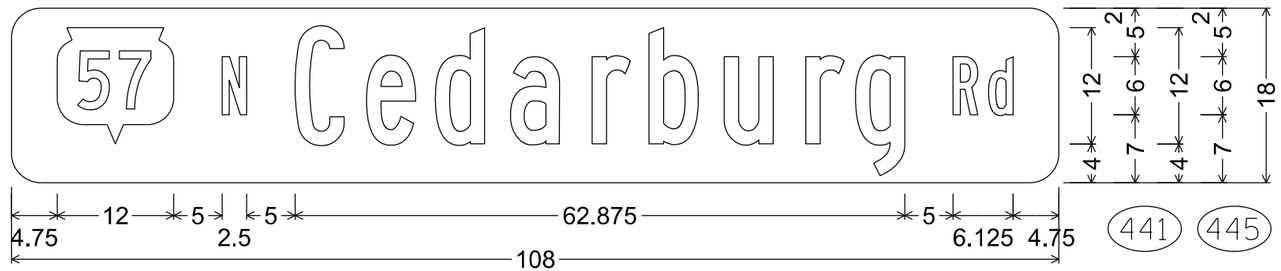
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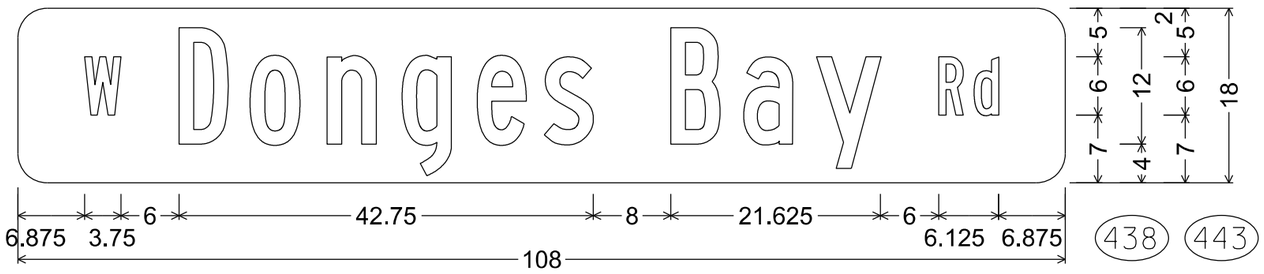
M1-94S; 3.000" Radius, No border, White on, Brown



M1-94S; 3.000" Radius, No border, White on, Brown



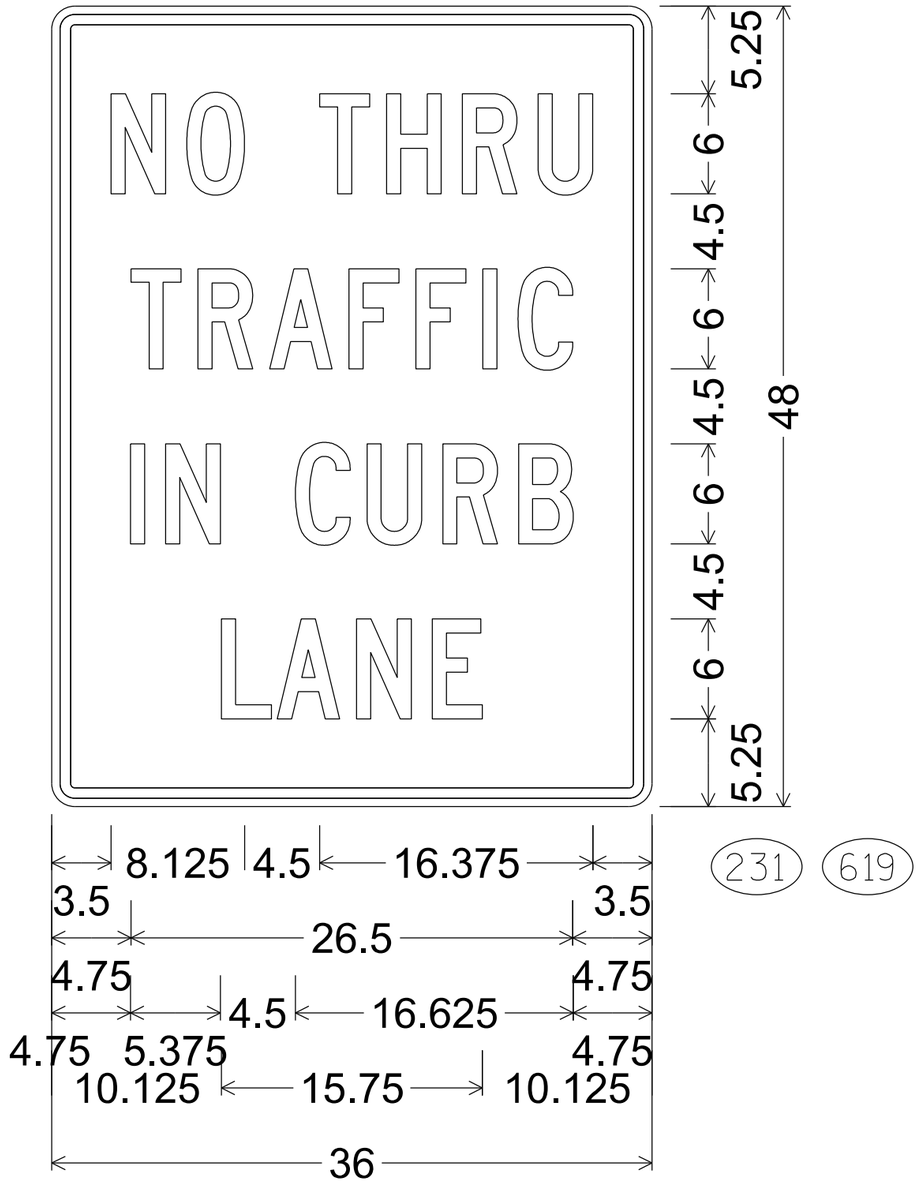
M1-94S; 3.000" Radius, No border



M1-94S; 3.000" Radius, No border

NOTES

1. All Signs Type II - Type H Reflective
2. Color:
   Background - Green except as noted.
   Message - White
3. Message Series - B



1.375" Radius, 0.625" Border, 0.500" Indent

NOTES

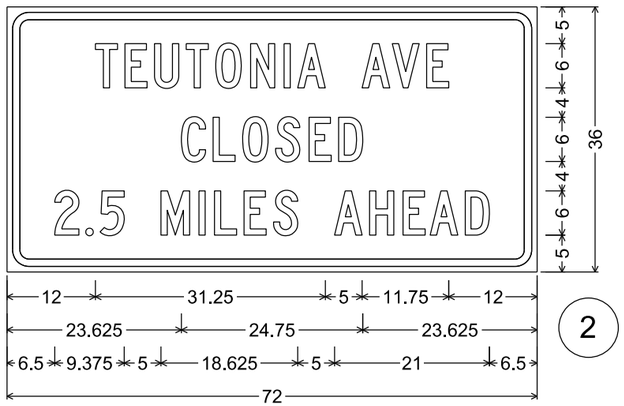
1. Sign is Type II- Type H Reflective
2. Color:
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   Message - Black
3. Message Series - C

7

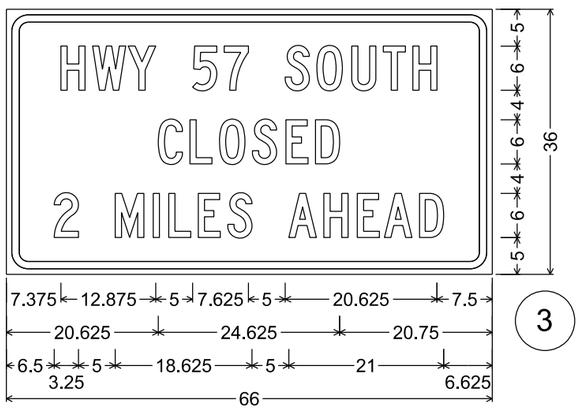
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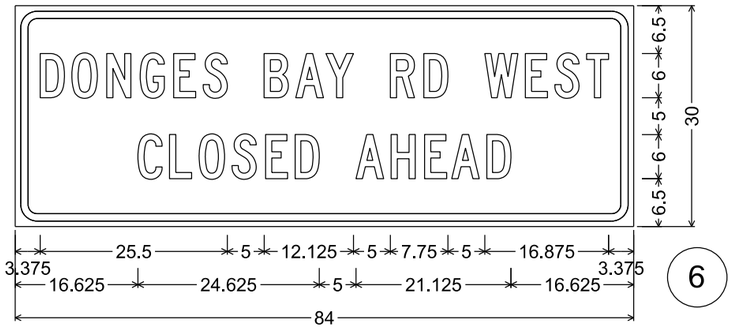
1. Fixed Message Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C



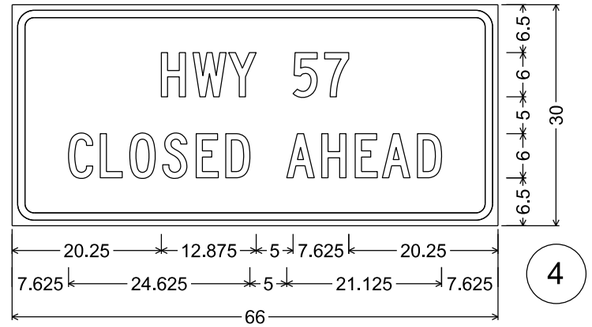
3.000" Radius, 1.000" Border, 0.750" Indent



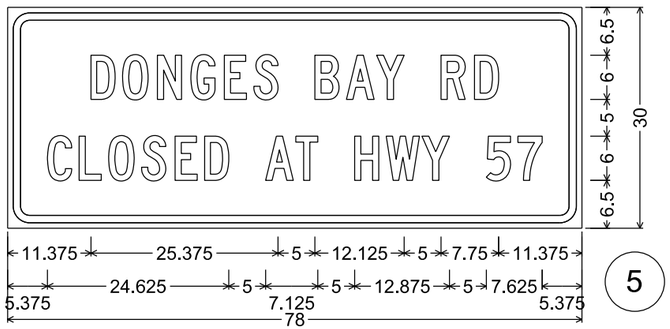
3.000" Radius, 1.000" Border, 0.750" Indent



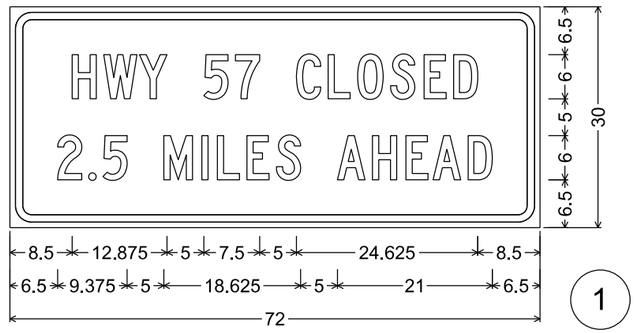
3.000" Radius, 1.000" Border, 0.750" Indent



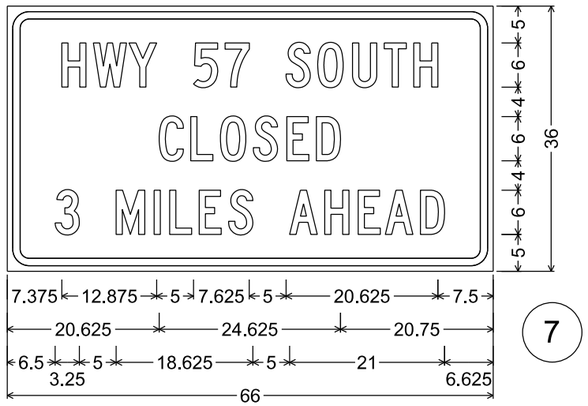
3.000" Radius, 1.000" Border, 0.750" Indent



3.000" Radius, 1.000" Border, 0.750" Indent



3.000" Radius, 1.000" Border, 0.750" Indent



3.000" Radius, 1.000" Border, 0.750" Indent

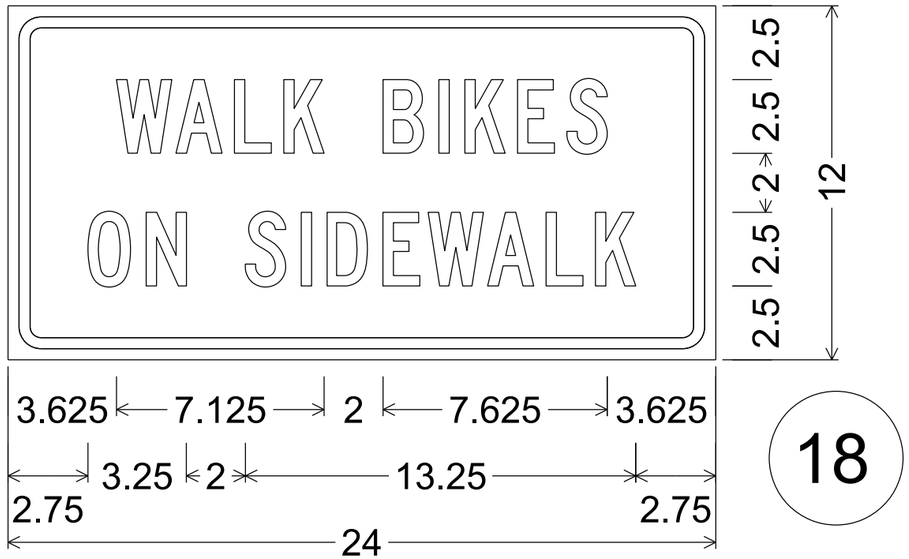
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7

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE/OZAUKEE	TEMPORARY SIGNING	SHEET NO: 1150	E

NOTES

1. Fixed Message Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - C



18

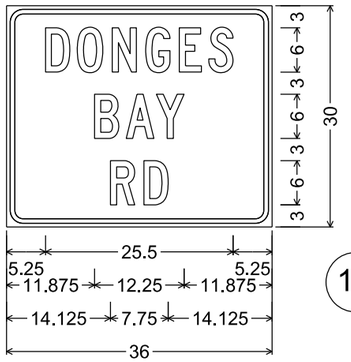
1.125" Radius, 0.375" Border, 0.375" Indent

7

7

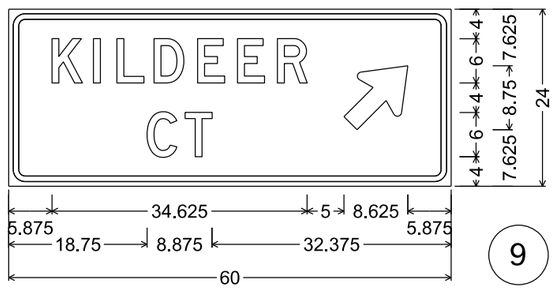
NOTES

1. Fixed Message Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - As noted



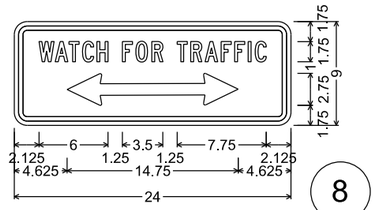
10

2.250" Radius, 0.625" Border, 0.500" Indent,
"DONGES", C; "BAY", C; "RD", C



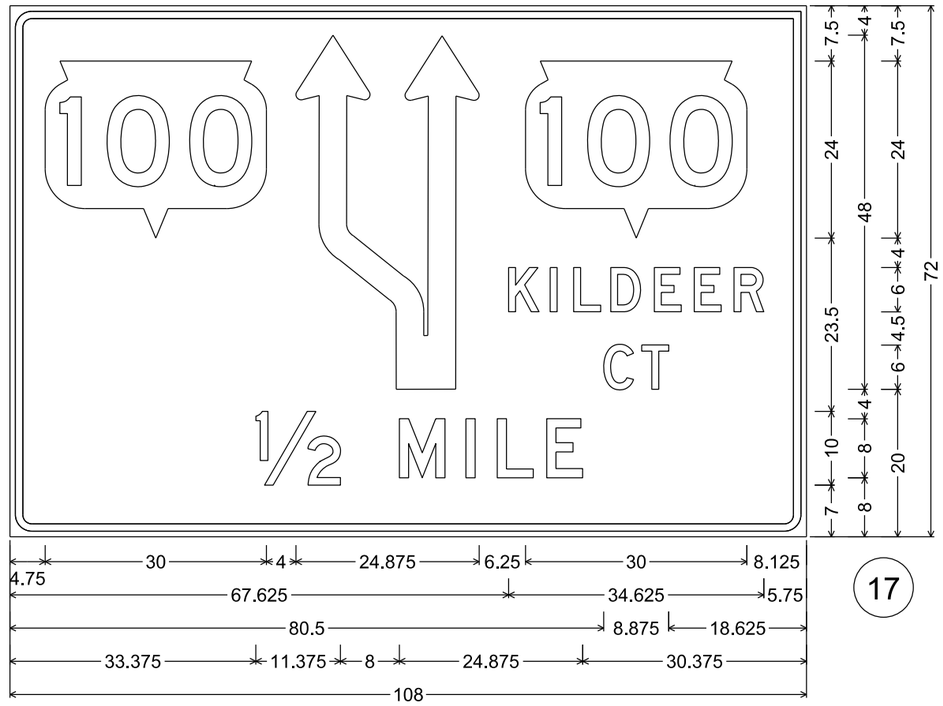
9

2.250" Radius, 0.750" Border, 0.625" Indent,
"KILDEER", D; "CT", D



8

1.125" Radius, 0.375" Border, 0.375" Indent,
"WATCH", C; "FOR", C; "TRAFFIC", C

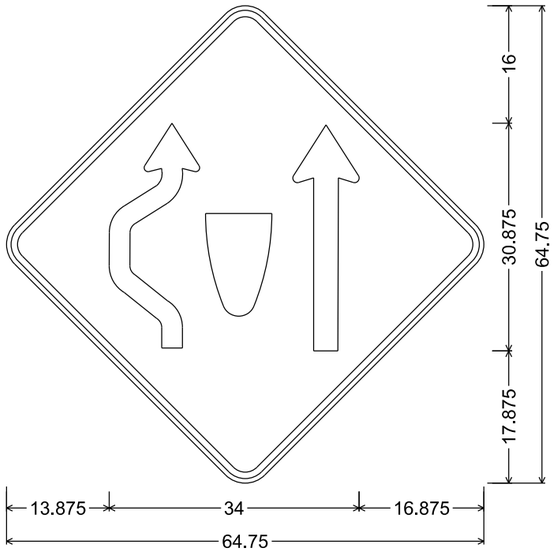


17

3.000" Radius, 1.000" Border, 0.750" Indent,
"KILDEER", D; "CT", D; "½", D; "MILE", D;

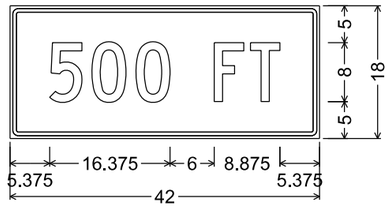
NOTES

1. Fixed Message Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C



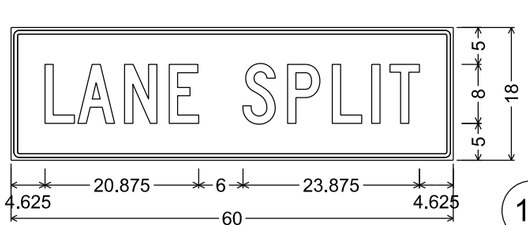
11

48.000" across sides 3.750" Radius, 0.875" Border, 0.625" Indent



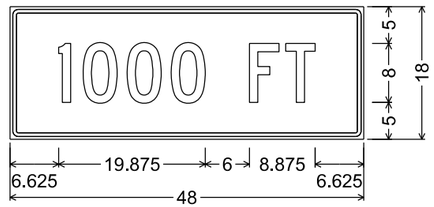
14

1.125" Radius, 0.500" Border, 0.375" Indent



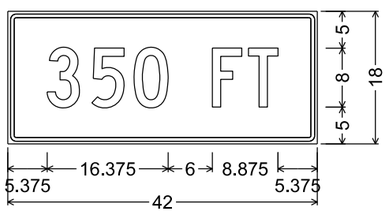
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1.125" Radius, 0.500" Border, 0.375" Indent



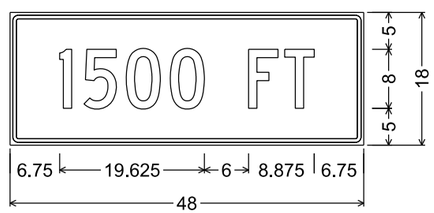
15

1.125" Radius, 0.500" Border, 0.375" Indent



13

1.125" Radius, 0.500" Border, 0.375" Indent



16

1.125" Radius, 0.500" Border, 0.375" Indent

7

7

DESIGN DATA

CONTRACTOR DESIGNED OVERHEAD SIGN STRUCTURES SHALL BE DESIGNED ACCORDING TO THE AASHTO "LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS", 1ST EDITION AND INTERIM SPECIFICATIONS, AND THE WISDOT BRIDGE MANUAL.

THE FOLLOWING INFORMATION SHALL BE USED IN THE DESIGN:
DEAD LOAD - WT. OF SIGN AND SUPPORTING STRUCTURE.
ICE LOAD - 3 PSF TO ONE FACE OF SIGN & AROUND SURFACE OF MEMBERS.
WIND PRESSURE - 115 MPH (3-SEC. GUST SPEED) TO SIGN AREA & EXPOSED MEMBERS. (700 YEAR MEAN RECURRENCE INTERVAL)

WIND COMPONENTS	NORMAL	TRANSVERSE
LOAD CASE 1	1.0	0.0
LOAD CASE 2	0.0	1.0
LOAD CASE 3	0.75	0.75

LOAD COMBINATIONS

STRENGTH I:	1.25 DC + 1.6 LL	
EXTREME I	(MAX DC): 1.1 DC + 1.0 W + 1.0 ICE	
EXTERME I	(MIN DC): 0.9 DC + 1.0 W	
SERVICE I:	1.0 DC + 1.0 W	
FATIGUE I:	1.0 NWG (NATURAL WIND GUST VIBRATION)	
	1.0 TrG (TRUCK INDUCED GUST VIBRATION)	
	1.0 GVW (GALLOPING INDUCED VIBRATION)	- CANTILEVER ONLY

STANDARD FOUNDATIONS ARE DESIGNED ACCORDING TO THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION.

MATERIAL PROPERTIES

CONCRETE MASONRY. . . . . .f'c = 3,500 psi

HIGH STRENGTH STEEL
REINFORCEMENT, GRADE 60 . . . . . .fy = 60,000 psi

HIGH STRENGTH BOLTS - A325. . . . . .fy = 92,000 psi

ANCHOR RODS - ASTM F1554 GRADE 55 . . . .fy = 55,000 psi

HEAVY HEX NUTS FOR ANCHOR RODS - ASTM A563A

WASHERS FOR ANCHOR RODS - ASTM F436

FOUNDATION DATA

Sign structure foundations are supported on drilled shafts that have been designed for sites where soils exhibit a phi-angle greater than or equal to 24^ (granular soils), or a cohesion value greater than or equal to 750 psf (cohesive soils) and a unit weight of 125 pcf. the ground water table is assumed to be at a depth of 10'-0" below the ground surface. The Region Geotechnical Engineer shall visually inspect the subsurface soils during drilling of the shaft hole to confirm these properties prior to placement of the drilled shaft concrete.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

ALTERNATE DESIGNS ARE NOT ALLOWED.

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), MILWAUKEE COUNTY ZONE, NAD 1983 (2011). ALL STATIONS AND ELEVATIONS ARE IN FEET. ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988, NAVD 88 (2011) ADJUSTED.

ALL REINFORCING BARS ARE IN ENGLISH UNITS. THE FIRST DIGIT OF A THREE-DIGIT BAR MARK OR THE FIRST TWO DIGITS OF A FOUR-DIGIT BAR MARK SIGNIFIES THE BAR SIZE.

SIGN BRIDGE ID PLAQUES SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "OVERHEAD SIGN STRUCTURE XXXXXXX" FOR EACH APPLICABLE SIGN STRUCTURE IN THE PLAN SET. LOCATE THE ID PLAQUE ON THE FREEWAY SIDE OF THE SUPPORT COLUMN SO THAT IT CAN BE SEEN FROM THE ROADWAY. FABRICATE AND INSTALL THE ID PLAQUE IN ACCORDANCE WITH S.D.D. 12 A 4-3.

ALL H.S. BOLTED CONNECTIONS SHALL BE MADE WITH *f*" DIA A325 GALVANIZED BOLTS. FIELD CONNECTIONS SHALL BE INSTALLED WITH DTI WASHERS.

CONNECTIONS CAN EITHER BE WELDED OR BOLTED CONNECTIONS. IF WELDED CONNECTIONS ARE USED, THE MONOTUBE OR 2-CHORD TRUSS UNIT SHALL BE GALVANIZED AS ONE PIECE.

WELD TEST AS PER AWS D1.1.

SEE SIGN PLATE NO. A4-7A & A4-7B OF THE SIGN PLATE MANUAL FOR INSTRUCTIONS ON CENTERING SIGNS VERTICALLY ON THE TRUSS.

SIGNS OR BLANKS SHALL BE INSTALLED ON TRUSS AT TIME OF ERECTION. FOR FULL SPAN OR CANTILEVER 2-CHORD TRUSSES, BLANKS SHALL BE 1/4 THE LENGTH OF THE SPAN, 2'-0" DEEPER THAN THE C/L TO C/L OF CHORDS, AND SHALL BE CENTERED ON THE SPAN. FOR FULL SPAN OR CANTILEVER MONOTUBES, BLANKS SHALL BE 1/4 THE LENGTH OF THE SPAN, 4'-0" IN HEIGHT, AND SHALL BE CENTERED ON THE SPAN. SIGNS SHALL BE AS DESIGNATED ON THE PLANS.

THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION OF THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE.

CONTRACTOR SHALL SUBMIT SHOP DRAWINGS PER THE REQUIREMENTS IN THE STANDARD SPECIFICATIONS PRIOR TO FABRICATION OF THE STRUCTURE. CONTRACTOR SHALL SHOW SIGNS ON SHOP DRAWINGS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DRILLING OR EXCAVATING AND MAINTAINING A STABLE AND OPEN HOLE FOR SUBSEQUENT INSTALLATION OF CONCRETE MASONRY FOR THE DRILLED SHAFTS. PARTIAL OR FULL DEPTH TEMPORARY CASING MAY BE REQUIRED TO MAINTAIN THE STABILITY OF THE EXCAVATED HOLE FOR THE SIGN SUPPORT PRIOR TO FILLING THE HOLE WITH CONCRETE. PERMANENT CASING MADE FROM STEEL OR CORRUGATED METAL PIPE MAY BE USED IN LIEU OF TEMPORARY CASING. TEMPORARY/PERMANENT CASING, IF USED, SHALL BE INCIDENTAL TO THE BID ITEM "FOUNDATION DRILLING".

STRUCTURE DATA

SIGN STR	ACTUAL SIGN AREA	ACTUAL SIGN HEIGHT	STANDARD FOOTING TYPE
S-40-3092	20 SF	5'	MC-I
S-40-3093	20 SF	5'	MC-I

LIST OF DRAWINGS

1. GENERAL NOTES & DESIGN DATA
2. GENERAL LAYOUT S-40-3092
3. GENERAL LAYOUT S-40-3093

LIST OF OSS STANDARD DESIGN DRAWINGS

I MONOTUBE & 2-CHORD TRUSS DETAILS 1
II MONOTUBE & 2-CHORD TRUSS DETAILS 2
III MONOTUBE & 2-CHORD TRUSS FOUNDATION DETAILS

N

STATE PROJECT NUMBER

2270-04-70

TRAFFIC VOLUME

A.D.T. (2021) = 22,300
R.D.S. = 45 MPH

TOTAL ESTIMATED QUANTITIES

BID ITEM NO.	BID ITEMS	UNIT	S-40-3092	S-40-3093
531.2030.0001	DRILLING SHAFT (DIAMETER) 30"	LF		17
531.2030.0002	DRILLING SHAFT (DIAMETER) 30"	LF	17	
531.5110.0001	FOUNDATION SINGLE-SHAFT (TYPE) MC-I (S-40-3092)	EA	1	
531.5110.0002	FOUNDATION SINGLE-SHAFT (TYPE) MC-I (S-40-3093)	EA		1
532.5110.0001	MONOTUBE CANTILEVER (TYPE) I (S-40-3092)	EA	1	
532.5110.0002	MONOTUBE CANTILEVER (TYPE) I (S-40-3093)	EA		1

STRUCTURE DESIGN CONTACTS

BUREAU OF STRUCTURES:
AARON BONK (608) 261-0261

NO.	DATE	REVISION	BY

BUREAU OF STRUCTURES

ACCEPTED SDR 05/13/21
CHIEF STRUCTURES DESIGN ENGINEER DATE

OSS MONOTUBE AND 2-CHORD TRUSS PLANS

ENTER DESCRIPTION

COUNTY: MILWAUKEE | VILLAGE OF BROWN DEER

DESIGN SPEC.
AASHTO LRFDLTS-1 W/INTERIMS

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
BOS	BOS	TAH	XXX

GENERAL NOTES & DESIGN DATA

SHEET 1 OF 3

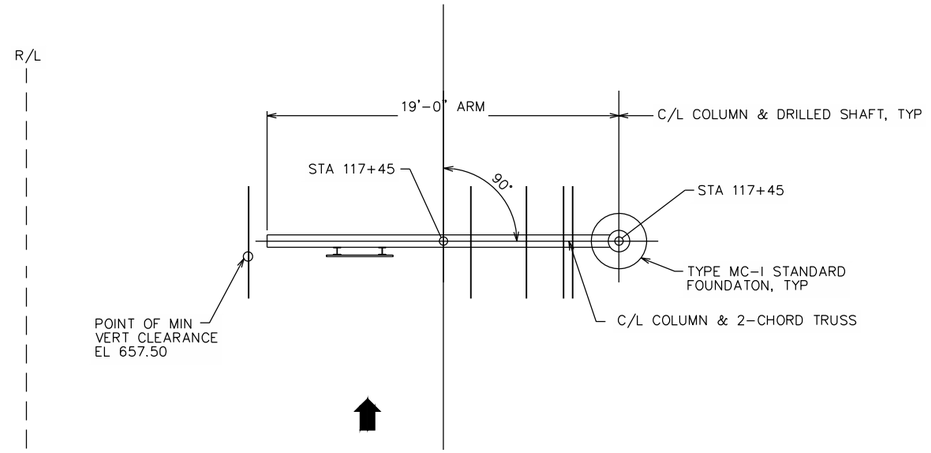
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8

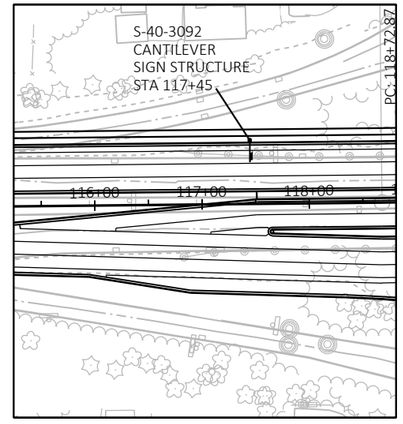
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FILE NAME : $$....designfile....$$

STATE PROJECT NUMBER
2270-04-70



PLAN



LOCATION MAP

NOTE: TYPE I SIGNS WITH I-BEAMS INCIDENTAL

NOTE

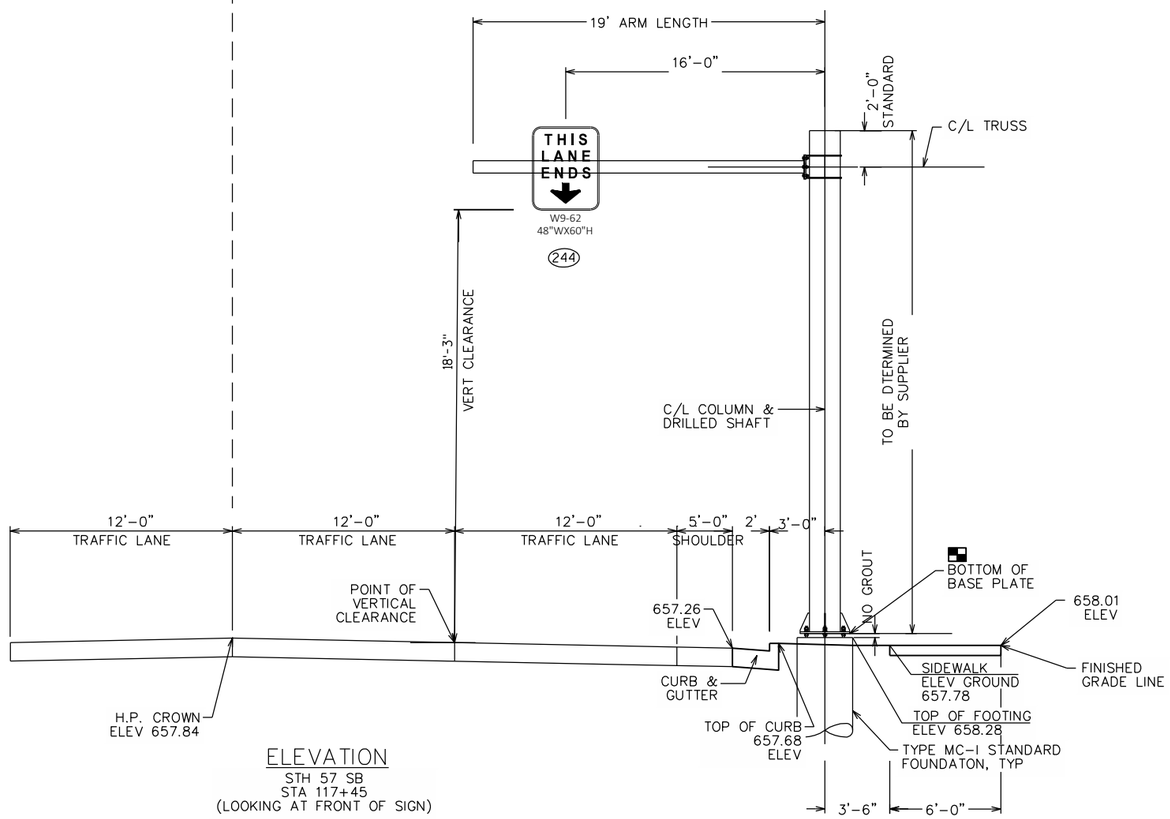
POINT OF MIN VERTICAL CLEARANCE
STA 117+45
EL 657.50

LEGEND

☆ ELEVATIONS GIVEN ALONG ℄ MONOTUBE

(XXX) SIGN NUMBERS (PERMANENT SIGNING PLAN)

STANDOFF DIMENSION IS ASSUMED TO BE 2½", BUT IS A MAXIMUM OF 2 X ANCHOR DIMENSION. SEE FOUNDATION DETAILS SHEET AND SHOP DRAWINGS FOR MORE INFORMATION.



ELEVATION
STH 57 SB
STA 117+45
(LOOKING AT FRONT OF SIGN)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

S-40-3092

DRAWN BY TAH | PLANS CK'D. xxx

GENERAL LAYOUT
S40-3092

SHEET 2 OF 3

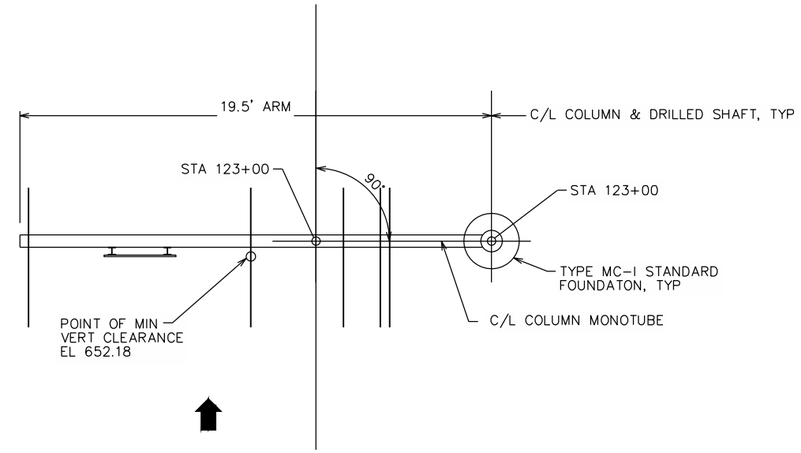
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8

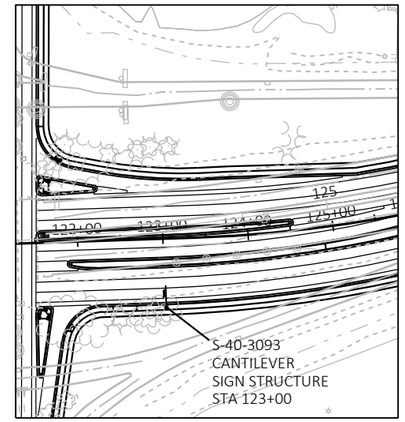
SCALE: $$.....plotscale.....$$

FILE NAME : $$....designfile....$$

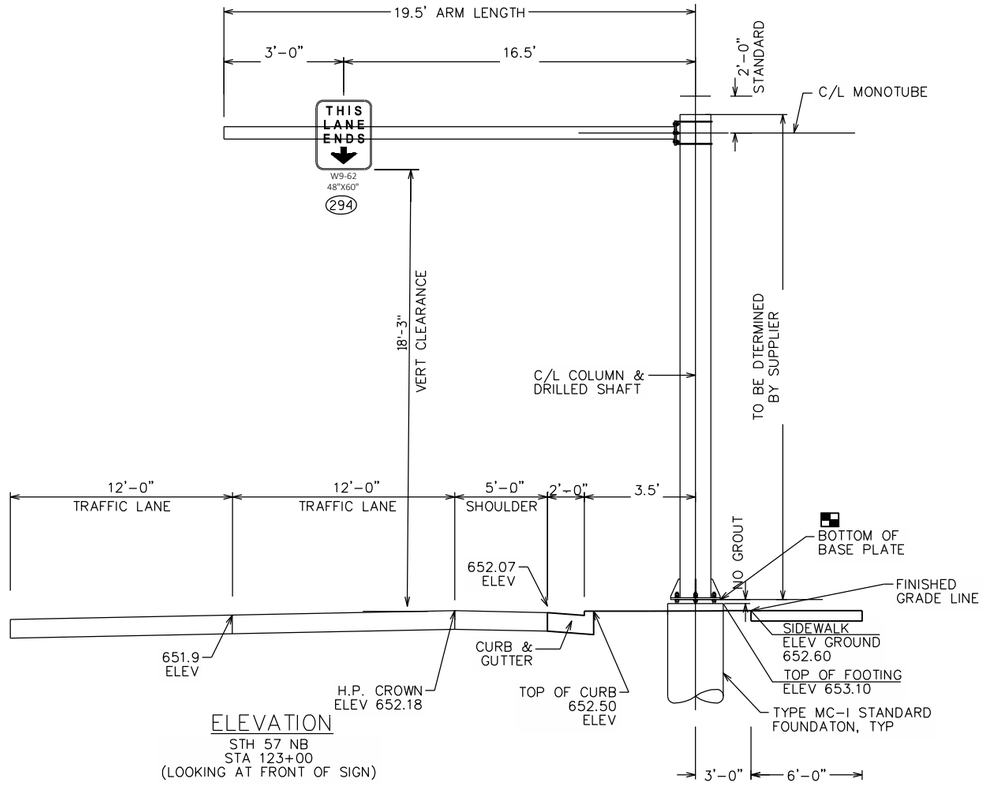
STATE PROJECT NUMBER
2270-04-70



PLAN



LOCATION MAP



ELEVATION
STH 57 NB
STA 123+00
(LOOKING AT FRONT OF SIGN)

NOTE: TYPE I SIGNS WITH I-BEAMS INCIDENTAL

NOTE

POINT OF MIN VERTICAL CLEARANCE
STA 123+00
EL 652.18

LEGEND

☆ ELEVATIONS GIVEN ALONG ℄ MONOTUBE

(XXX) SIGN NUMBERS (PERMANENT SIGNING PLAN)

STANDOFF DIMENSION IS ASSUMED TO BE 2½", BUT IS A MAXIMUM OF 2 X ANCHOR DIMENSION. SEE FOUNDATION DETAILS SHEET AND SHOP DRAWINGS FOR MORE INFORMATION.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

S-40-3093

DRAWN BY TAH | PLANS CK'D. xxx

GENERAL LAYOUT
S40-3093

SHEET 3 OF 3

8

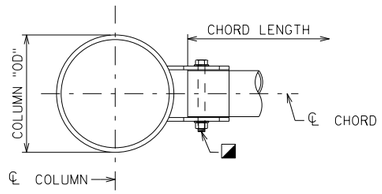
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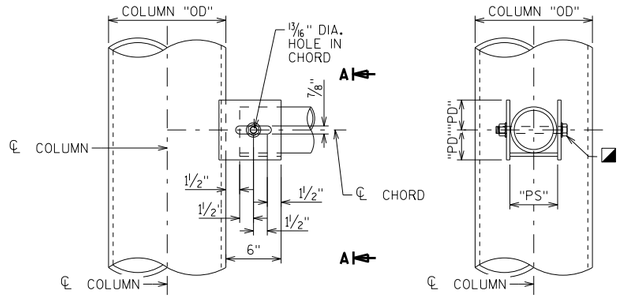
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STATE PROJECT NUMBER

STANDARD



PLAN



ELEVATION SECTION A-A

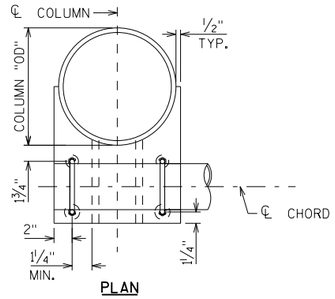
FULL SPAN SADDLE CONNECTION

PREFERRED

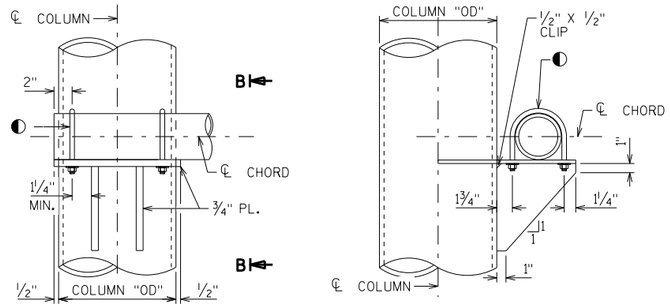
3/4" GALVANIZED A325 OR A449 HEAVY HEX BOLT, NUT, WASHER

"PD" = (CHORD "OD")/2 + 3/4"

"PS" = CHORD "OD" + 3/16"



PLAN

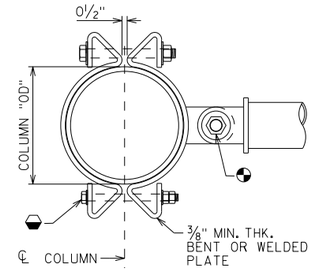


ELEVATION SECTION B-B

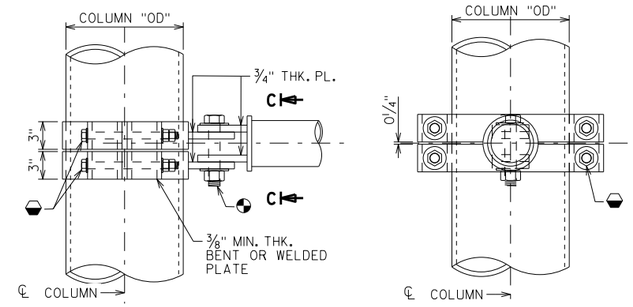
FULL SPAN STIFFENED BEARING CONNECTION

ALTERNATE 1

◐ (2) - 1/2" MIN. GALVANIZED U-BOLT, NUT, WASHER AND LOCK WASHER



PLAN



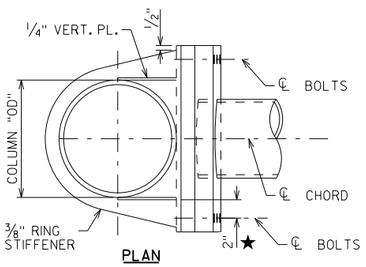
ELEVATION SECTION C-C

FULL SPAN CLAMP CONNECTION

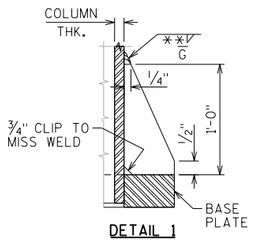
ALTERNATE 2 - TAPERED COLUMNS ONLY

1 1/4" GALVANIZED A325 HEAVY HEX BOLT, NUT AND WASHER

1" GALVANIZED A449 HEAVY HEX BOLT, NUT AND WASHER

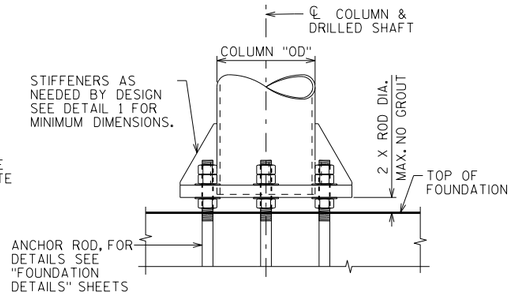


PLAN



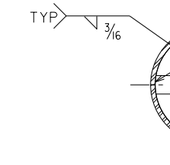
DETAIL 1

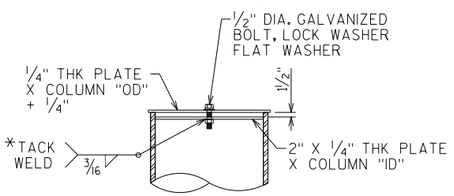
** SIZE AS NEEDED



BASE PLATE & COLUMN DETAIL

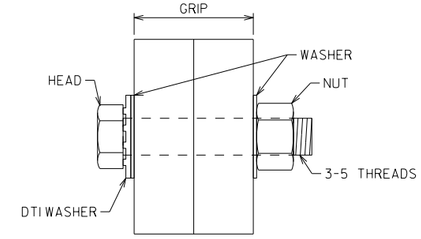
LOOKING AT FRONT FACE OF STRUCTURE



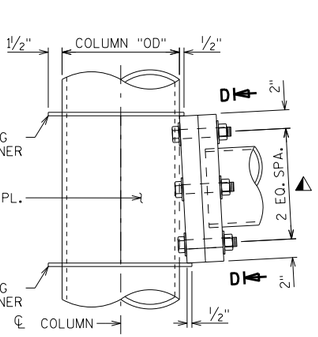


COLUMN/CHORD CAP DETAIL

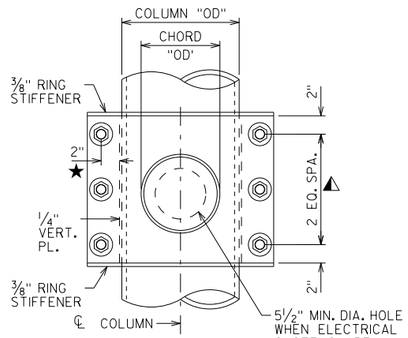
*PLACE TACK EVERY OTHER FLAT TO SECURE NUT OR USE 1/2" THICK AND TAP PLATE HOLE FOR BOLT THREADS



RECOMMENDED BOLT DETAIL WITH DTI



ELEVATION

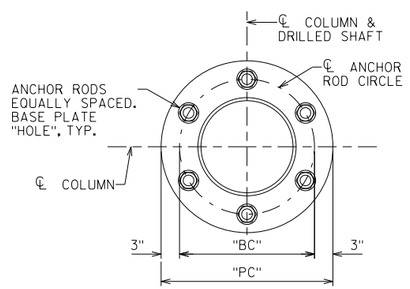


SECTION D-D

CANTILEVER POST TO CHORD CONNECTION

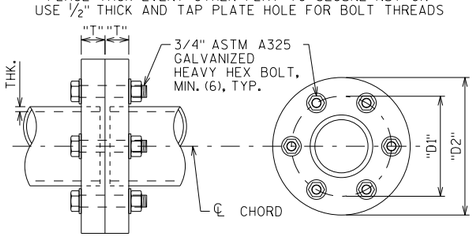
◭ MIN. CONNECTION = (6) - 1" GALVANIZED A325 BOLTS, NUT, WASHER AND DTI

★ MEASURED FROM EXT. FACE OF VERT. PLATE



BASE PLATE

PLAN



CHORD SPLICE DETAIL

"D1" = CHORD "OD" + 3"

"D2" = CHORD "OD" + 6"

"T" = BY DESIGN

NOTES:

MINIMUM VALUES SHOWN

ALL CONNETIONS ARE TO BE DESIGNED FOR ACTUAL STRUCTURE LOADS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

UPDATED: JULY 2020

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MONOTUBE & 2-CHORD TRUSS DETAILS 1

SHEET 1 OF 11

1157

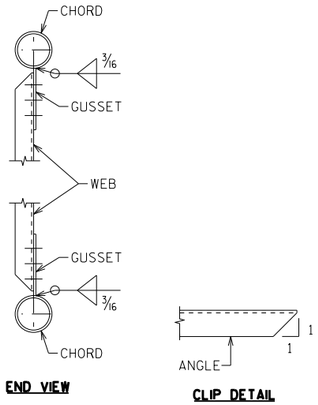
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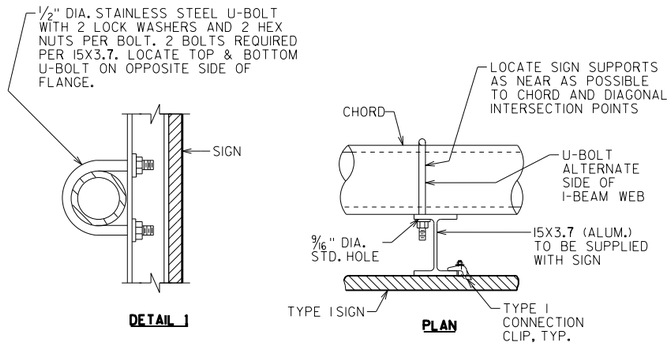
STATE PROJECT NUMBER

STANDARD



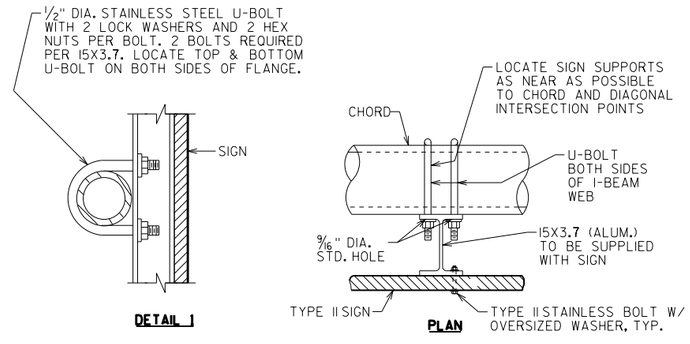
TRUSS CONNECTION DETAILS

BOLTED CONNECTIONS SHOWN, NUMBER OF BOLTS BY DESIGN
WELDED CONNECTIONS SIMILAR



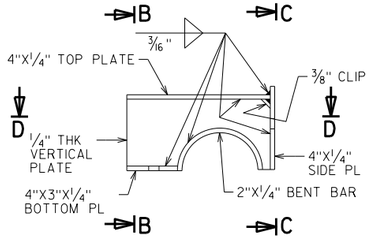
2-CHORD TRUSS SIGN CONNECTION

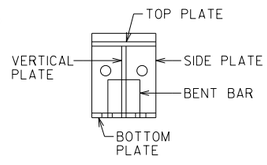
SEE SIGN PLATE MANUAL A4-7A FOR DETAILS

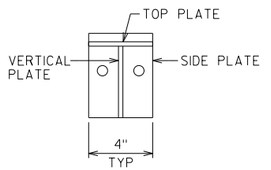


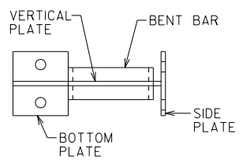
MONOTUBE SIGN CONNECTION

SEE SIGN PLATE MANUAL A4-7B FOR DETAILS



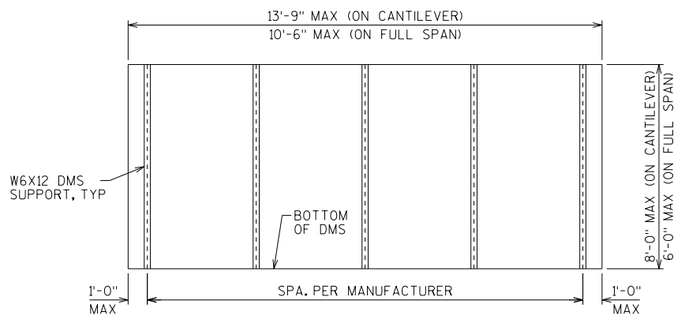






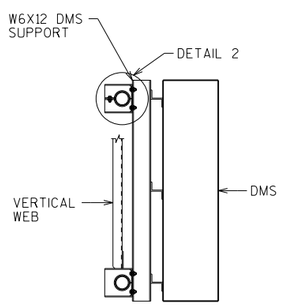
DMS WELDED PLATE CONNECTION DETAILS

TOP PLATE CLAMP SHOWN
BOTTOM PLATE CLAMP SIMILIAR



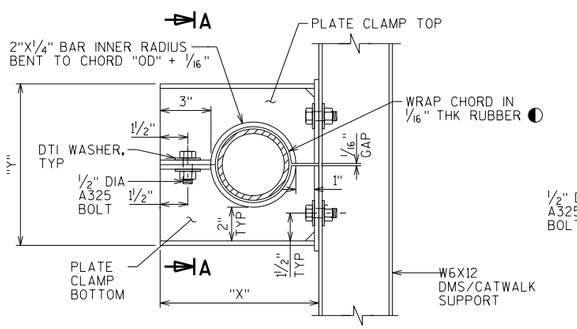
DMS MOUNTING POST SPACING DETAIL

POST SPACING MAY BE ADJUSTED AS REQUIRED IF CONFLICT WITH TRUSS IS ENCOUNTERED.

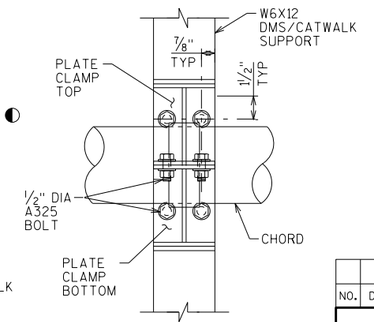


SECTION THRU TRUSS

FOR DMS CONNECTION

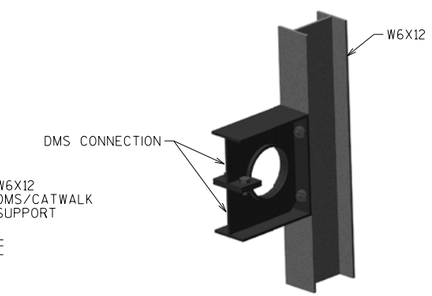


CHORD OUTER DIA	"X"	"Y"
"OD"	"OD"+4 13/16"	"OD"+5 1/16"



TYPICAL DMS CONNECTION

◐ NEOPRENE, GRADE 45±5, OTHERWISE MEETING THE REQUIREMENTS OF STD SPEC 506.2.6.1



3-D VIEW DMS CONNECTION

CHORD NOT SHOWN FOR CLARITY

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

UPDATED: JULY 2020

DRAWN BY: BOS | PLANS CK'D.: BOS

MONOTUBE & 2-CHORD TRUSS DETAILS 2

SHEET II OF III

1158

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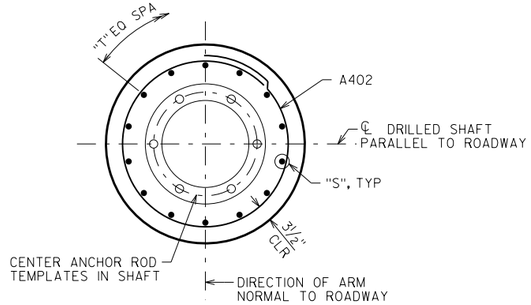
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STATE PROJECT NUMBER

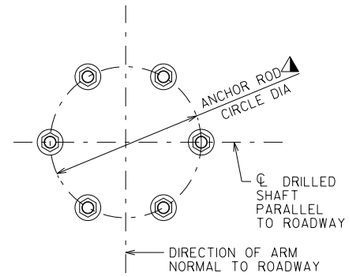
STANDARD

FOUNDATION & REINFORCING DATA

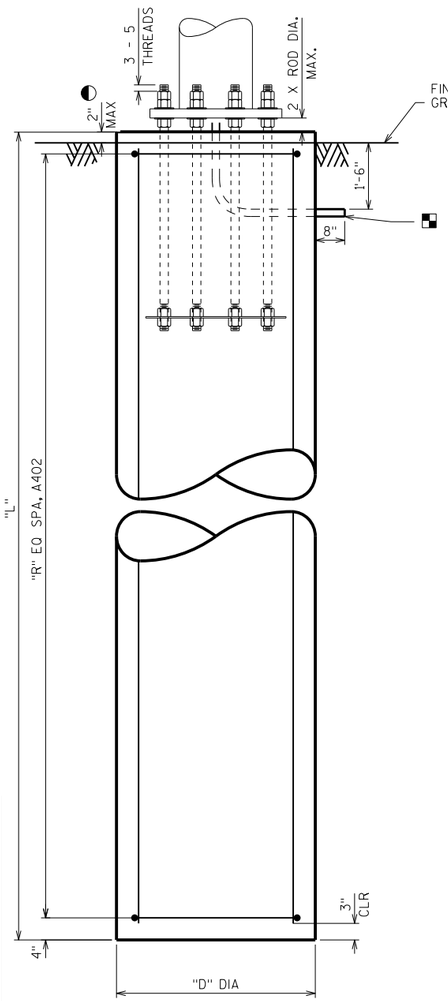
STANDARD FOUNDATION TYPE	SHAFT VARIABLES					
	"D"	"L"	"R"	"S"	"T"	"BC" MAX
MFI	2'-0"	12'-0"	12	A801	6	12"
MFII	2'-6"	13'-0"	13	A801	10	17"
MCI/MCII/TFI	2'-6"	17'-0"	17	A801	10	17"
TCI	3'-0"	18'-0"	18	A801	14	22"
TFII	3'-0"	20'-0"	20	A801	14	22"
MCIII/TCII/TFIII	3'-6"	18'-0"	18	A901	14	28"
MCIV/TFIV	3'-6"	23'-0"	23	A901	14	28"
TCIII	4'-0"	23'-0"	23	A1001	14	34"
TCIV	4'-0"	28'-0"	28	A1001	14	34"



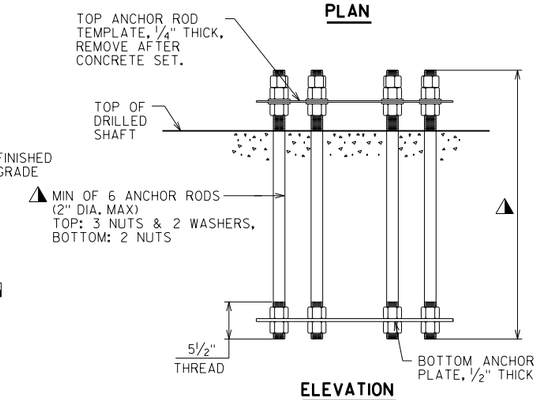
PLAN



PLAN



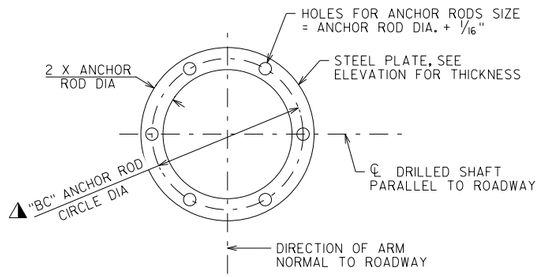
ELEVATION



ELEVATION

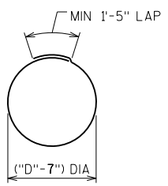
ANCHOR ROD ASSEMBLY DETAILS

△ ANCHOR ROD NUMBER, DIAMETER, LENGTH & ORIENTATION AS SHOWN ON FABRICATION DRAWING.



ANCHOR PLATE/TOP TEMPLATE

PLAN



A402

NOTE:
THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

BILL OF BARS - STANDARD FOUNDATIONS

STANDARD FOUNDATION MFI

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A801		6	11'-7"			DRILLED SHAFT - VERTICAL
A402		13	5'-10"	X		DRILLED SHAFT - HORIZONTAL

STANDARD FOUNDATION MFII

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A801		10	12'-7"			DRILLED SHAFT - VERTICAL
A402		14	7'-5"	X		DRILLED SHAFT - HORIZONTAL

STANDARD FOUNDATION MCI/MCII/TFI

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A801		10	16'-7"			DRILLED SHAFT - VERTICAL
A402		18	7'-5"	X		DRILLED SHAFT - HORIZONTAL

STANDARD FOUNDATION TCI

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A801		14	17'-7"			DRILLED SHAFT - VERTICAL
A402		19	9'-0"	X		DRILLED SHAFT - HORIZONTAL

STANDARD FOUNDATION TFII

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A801		14	19'-7"			DRILLED SHAFT - VERTICAL
A402		21	9'-0"	X		DRILLED SHAFT - HORIZONTAL

STANDARD FOUNDATION MCIII/TCII/TFIII

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A901		14	17'-7"			DRILLED SHAFT - VERTICAL
A402		19	10'-6"	X		DRILLED SHAFT - HORIZONTAL

STANDARD FOUNDATION MCIV/TFIV

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A901		14	22'-7"			DRILLED SHAFT - VERTICAL
A402		24	10'-6"	X		DRILLED SHAFT - HORIZONTAL

STANDARD FOUNDATION TCIII

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A1001		14	22'-7"			DRILLED SHAFT - VERTICAL
A402		24	12'-2"	X		DRILLED SHAFT - HORIZONTAL

STANDARD FOUNDATION TCIV

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A1001		14	27'-7"			DRILLED SHAFT - VERTICAL
A402		29	12'-2"	X		DRILLED SHAFT - HORIZONTAL

ESTIMATED QUANTITIES - FOUNDATIONS

STANDARD FOUNDATION TYPE	CONCRETE MASONRY (CY)	STEEL REINFORCEMENT HS (LBS)	FOUNDATION DRILLING (LF)				
			24" DIA.	30" DIA.	36" DIA.	42" DIA.	48" DIA.
MFI	2	240	12				
MFII	3	410		13			
MCI/MCII/TFI	4	540		17			
TCI	5	780			18		
TFII	6	860			20		
MCIII/TCII/TFIII	7	970				18	
MCIV/TFIV	9	1,250				23	
TCIII	11	1,560					23
TCIV	13	1,900					28

✳✳ QUANTITIES ARE FOR INFORMATION ONLY AND ARE BASED ON STANDARD STRUCTURE DIMENSIONS

NOTES

CENTER ANCHOR ROD ASSEMBLY ON DRILLED SHAFT AND MAKE SURE IT IS PLUMB. MAINTAIN ANCHOR ROD PROJECTION ABOVE FOOTING AS DETAILED. ANCHOR ROD ASSEMBLY SHALL BE RIGIDLY SECURED IN POSITION DURING AND AFTER CONCRETE PLACEMENT. DO NOT WELD THE ANCHOR RODS.

◐ FOR OVERHEAD SIGN STRUCTURES THAT ARE INSTALLED ADJACENT TO SIDEWALKS, THE TOP OF THE SHAFT SHALL BE POURED FLUSH WITH THE FINISHED GRADE.

◪ 2" DIA NONMETALLIC CONDUITS, INSTALL ONLY WITH DMS. EXTEND CONDUITS AS SHOWN AND CAP OR SEAL EACH END WITH A SUITABLE REMOVABLE PLUG. PLACE CONDUITS UNDER COLUMN ADJACENT TO THE DMS. CONDUITS INCIDENTAL TO THE FOUNDATION BID ITEMS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

UPDATED: JULY 2020

DRAWN BY BOS | PLANS CK'D. BOS

MONOTUBE & 2-CHORD TRUSS FOUNDATIONS

SHEET III OF III

1159

SCALE = 1.67

8

8

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
4 - MASS ORDINATE	THE MASS ORDINATE + OR - QTY CALCULATED FOR THE SEGMENT. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE SEGMENT. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE SEGMENT.

9

9

Stage 1 - STH 100

STATION	REAL STATION	DISTANCE	AREA (SF) CUT	AREA (SF) SALVAGED/UNUSABLE PAVEMENT MATERIAL	AREA (SF) FILL	INCREMENTAL VOL (CY) (UNADJUSTED) CUT NOTE 1	INCREMENTAL VOL (CY) (UNADJUSTED) SALVAGED/UNUSABLE PAVEMENT MATERIAL NOTE 2	INCREMENTAL VOL (CY) (UNADJUSTED) FILL NOTE 3	CUMULATIVE VOL (CY) CUT 1.00 NOTE 1	CUMULATIVE VOL (CY) EXPANDED FILL 1.30	CUMULATIVE VOL (CY) MASS ORDINATE NOTE 4
476+38	47638.00	0.00	--	0.00	0.00	0	0	0	0	0	0
480+15	48015.00	377.00	--	0.00	0.00	564	0	0	564	0	564
482+00	48200.00	185.00	0.00	0.00	0.00	0	0	0	564	0	564
482+25.91	48225.91	25.91	3.85	0.00	0.01	2	0	0	565	0	565
482+50	48250.00	24.09	9.76	0.00	0.00	6	0	0	571	0	571
482+68.78	48268.78	18.78	28.02	0.00	0.00	13	0	0	585	0	585
483+00	48300.00	31.22	17.53	0.00	0.89	26	0	1	611	1	610
483+32.33	48332.33	32.33	40.37	0.00	0.01	35	0	1	646	1	644
483+50	48350.00	17.67	25.52	0.00	0.00	22	0	0	667	1	666
484+00	48400.00	50.00	24.67	0.00	0.00	46	0	0	714	1	712
484+50	48450.00	50.00	24.27	0.00	0.00	45	0	0	759	1	758
485+00	48500.00	50.00	24.41	0.00	0.00	45	0	0	804	1	803
485+50	48550.00	50.00	24.18	0.00	0.00	45	0	0	849	1	848
486+00	48600.00	50.00	23.96	0.00	0.00	45	0	0	894	1	892
486+12.54	48612.54	12.54	16.49	0.00	0.00	9	0	0	903	1	902
486+50	48650.00	37.46	0.00	0.00	0.00	11	0	0	914	1	913
487+00	48700.00	50.00	0.00	0.00	0.00	0	0	0	914	1	913
487+50	48750.00	50.00	0.00	0.00	0.00	0	0	0	914	1	913
488+00	48800.00	50.00	0.00	0.00	0.00	0	0	0	914	1	913
488+50	48850.00	50.00	0.00	0.00	0.00	0	0	0	914	1	913
488+69.02	48869.02	19.02	4.72	0.00	0.00	2	0	0	916	1	915
489+00	48900.00	30.98	12.03	0.00	0.00	10	0	0	926	1	924
489+50	48950.00	50.00	23.60	0.00	0.05	33	0	0	959	1	957
490+00	49000.00	50.00	30.15	0.00	0.00	50	0	0	1,008	2	1,007
490+50	49050.00	50.00	28.10	0.00	0.00	54	0	0	1,062	2	1,061
491+00	49100.00	50.00	27.20	0.00	0.03	51	0	0	1,114	2	1,112
491+36.09	49136.09	36.09	11.86	0.00	0.00	26	0	0	1,140	2	1,138
491+50	49150.00	13.91	0.00	0.00	0.00	3	0	0	1,143	2	1,141
491+57	49157.00	7.00	--	0.00	0.00	0	0	0	1,143	2	1,141
491+85	49185.00	28.00	--	0.00	0.00	27	0	0	1,170	2	1,168
492+00	49200.00	15.00	0.00	0.00	0.00	0	0	0	1,170	2	1,168
492+32.51	49232.51	32.51	4.44	0.00	0.00	3	0	0	1,172	2	1,171
492+50	49250.00	17.49	18.99	0.00	0.07	8	0	0	1,180	2	1,178
493+00	49300.00	50.00	28.78	0.00	0.00	44	0	0	1,224	2	1,222
493+50	49350.00	50.00	32.53	0.00	0.00	57	0	0	1,281	2	1,279
494+00	49400.00	50.00	42.36	0.00	0.00	69	0	0	1,350	2	1,348
494+50	49450.00	50.00	52.93	0.00	0.00	88	0	0	1,438	2	1,437
495+00	49500.00	50.00	56.13	0.00	0.00	101	0	0	1,539	2	1,538
495+50	49550.00	50.00	57.03	0.00	0.00	105	0	0	1,644	2	1,642
496+00	49600.00	50.00	54.89	0.00	0.00	104	0	0	1,748	2	1,746
496+30.41	49630.41	30.41	36.94	0.00	0.00	52	0	0	1,799	2	1,798
496+50	49650.00	19.59	0.00	0.00	0.00	13	0	0	1,813	2	1,811
497+00	49700.00	50.00	0.00	0.00	0.00	0	0	0	1,813	2	1,811
497+50	49750.00	50.00	0.00	0.00	0.00	0	0	0	1,813	2	1,811
				TABLE TOTALS		1,813	0	1			

CONTINUED

Stage 1 - STH 100

STATION	REAL STATION	DISTANCE	AREA (SF) CUT	AREA (SF) SALVAGED/UNUSABLE PAVEMENT MATERIAL	AREA (SF) FILL	INCREMENTAL VOL (CY) (UNADJUSTED) CUT NOTE 1	INCREMENTAL VOL (CY) (UNADJUSTED) SALVAGED/UNUSABLE PAVEMENT MATERIAL NOTE 2	INCREMENTAL VOL (CY) (UNADJUSTED) FILL NOTE 3	CUMULATIVE VOL (CY) CUT 1.00 NOTE 1	CUMULATIVE VOL (CY) EXPANDED FILL 1.30	CUMULATIVE VOL (CY) MASS ORDINATE NOTE 4
498+00	49800.00	50.00	0.00	0.00	0.00	0	0	0	1,813	2	1,811
498+50	49850.00	50.00	0.00	0.00	0.00	0	0	0	1,813	2	1,811
499+00	49900.00	50.00	0.00	0.00	0.00	0	0	0	1,813	2	1,811
499+50	49950.00	50.00	0.00	0.00	0.00	0	0	0	1,813	2	1,811
500+00	50000.00	50.00	37.75	0.00	0.02	35	0	0	1,848	2	1,846
500+50	50050.00	50.00	41.87	0.00	0.00	74	0	0	1,922	2	1,920
501+00	50100.00	50.00	32.86	0.00	0.00	69	0	0	1,991	2	1,989
501+50	50150.00	50.00	23.10	0.00	0.08	52	0	0	2,043	2	2,041
502+00	50200.00	50.00	26.37	0.00	0.00	46	0	0	2,088	2	2,086
502+50	50250.00	50.00	30.44	0.00	0.00	53	0	0	2,141	2	2,139
503+00	50300.00	50.00	35.39	0.00	0.00	61	0	0	2,202	2	2,200
503+50	50350.00	50.00	28.89	0.00	0.00	60	0	0	2,261	2	2,260
504+00	50400.00	50.00	21.71	0.00	0.00	47	0	0	2,308	2	2,306
504+50	50450.00	50.00	34.19	0.00	0.00	52	0	0	2,360	2	2,358
504+99.59	50499.59	49.59	16.39	0.00	0.00	46	0	0	2,407	2	2,405
505+00	50500.00	0.41	16.38	0.00	0.00	0	0	0	2,407	2	2,405
505+50	50550.00	50.00	16.20	0.00	0.00	30	0	0	2,437	2	2,435
506+00	50600.00	50.00	16.40	0.00	0.00	30	0	0	2,467	2	2,465
506+41.77	50641.77	41.77	0.00	0.00	0.00	13	0	0	2,480	2	2,478
506+50	50650.00	8.23	0.00	0.00	0.00	0	0	0	2,480	2	2,478
517+74	51774.00	1124.00	--	0.00	0.00	0	0	0	2,480	2	2,478
524+51	52451.00	677.00	--	0.00	0.00	936	0	0	3,416	2	3,414
				TABLE TOTALS		1,603	0	0			
				TOTALS		3,416	0	1			

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Stage 1 - Ramp C

STATION	REAL STATION	DISTANCE	AREA (SF) CUT	AREA (SF) SALVAGED/UNUSABLE PAVEMENT MATERIAL	AREA (SF) FILL	INCREMENTAL VOL (CY) (UNADJUSTED) CUT NOTE 1	INCREMENTAL VOL (CY) (UNADJUSTED) SALVAGED/UNUSABLE PAVEMENT MATERIAL NOTE 2	INCREMENTAL VOL (CY) (UNADJUSTED) FILL NOTE 3	CUMULATIVE VOL (CY) CUT 1.00 NOTE 1	CUMULATIVE VOL (CY) EXPANDED FILL 1.30	CUMULATIVE VOL (CY) MASS ORDINATE NOTE 4
06+46.61	646.61	0.00	154.56	0.00	0.00	0	0	0	0	0	0
06+50	650.00	3.39	170.97	0.00	0.00	20	0	0	20	0	20
06+52.64	652.64	2.64	174.09	0.00	0.01	17	0	0	37	0	37
06+86.88	686.88	34.24	44.99	0.00	0.00	139	0	0	176	0	176
07+00	700.00	13.12	42.17	0.00	0.00	21	0	0	197	0	197
07+50	750.00	50.00	25.63	0.00	0.00	63	0	0	260	0	260
08+00	800.00	50.00	14.52	0.00	0.00	37	0	0	297	0	297
08+50	850.00	50.00	20.61	0.00	0.00	33	0	0	330	0	330
09+00	900.00	50.00	26.84	0.00	0.00	44	0	0	374	0	374
09+50	950.00	50.00	27.93	0.00	0.00	51	0	0	425	0	425
10+00	1000.00	50.00	28.64	0.00	0.00	52	0	0	477	0	477
10+50	1050.00	50.00	29.11	0.00	0.00	53	0	0	530	0	530
11+00	1100.00	50.00	28.99	0.00	0.00	54	0	0	584	0	584
11+50	1150.00	50.00	30.37	0.00	0.00	55	0	0	639	0	639
12+00	1200.00	50.00	30.60	0.00	0.01	56	0	0	696	0	696
12+50	1250.00	50.00	33.29	0.00	0.00	59	0	0	755	0	755
13+00	1300.00	50.00	41.78	0.00	0.00	70	0	0	824	0	824
13+49.01	1349.01	49.01	12.47	0.00	0.00	49	0	0	873	0	873
				TOTALS		873	0	0			

Stage 2 - STH 100

STATION	REAL STATION	DISTANCE	AREA (SF) CUT	AREA (SF) SALVAGED/UNUSABLE PAVEMENT MATERIAL	AREA (SF) FILL	INCREMENTAL VOL (CY) (UNADJUSTED) CUT NOTE 1	INCREMENTAL VOL (CY) (UNADJUSTED) SALVAGED/UNUSABLE PAVEMENT MATERIAL NOTE 2	INCREMENTAL VOL (CY) (UNADJUSTED) FILL NOTE 3	CUMULATIVE VOL (CY) EXPANDED CUT 1.00 NOTE 1	CUMULATIVE VOL (CY) EXPANDED FILL 1.30	CUMULATIVE VOL (CY) MASS ORDINATE NOTE 4
486+16	48616.00	0.00	--	0.00	0.00	0	0	0	0	0	0
486+31	48631.00	15.00	--	0.00	0.00	16	0	0	16	0	16
487+50	48750.00	119.00	0.00	0.00	0.00	0	0	0	16	0	16
496+50	49650.00	900.00	0.00	0.00	0.00	0	0	0	16	0	16
496+84.71	49684.71	34.71	5.90	0.00	0.00	4	0	0	20	0	20
497+00	49700.00	15.29	20.77	0.00	0.00	8	0	0	27	0	27
497+50	49750.00	50.00	24.36	0.00	0.00	42	0	0	69	0	69
498+00	49800.00	50.00	23.95	0.00	0.00	45	0	0	114	0	114
498+50	49850.00	50.00	21.77	0.00	0.00	42	0	0	156	0	156
499+00	49900.00	50.00	22.04	0.00	0.00	41	0	0	197	0	197
499+42.74	49942.74	42.74	12.94	0.00	0.00	28	0	0	224	0	224
499+50	49950.00	7.26	0.00	0.00	0.00	2	0	0	226	0	226
499+93	49993.00	43.00	--	0.00	0.00	0	0	0	226	0	226
500+18	50018.00	25.00	--	0.00	0.00	42	0	0	268	0	268
					TOTALS	268	0	0			

Stage 3 - STH 57

STATION	REAL STATION	DISTANCE	AREA (SF) CUT	AREA (SF) SALVAGED/UNUSABLE PAVEMENT MATERIAL	AREA (SF) FILL	INCREMENTAL VOL (CY) (UNADJUSTED) CUT NOTE 1	INCREMENTAL VOL (CY) (UNADJUSTED) SALVAGED/UNUSABLE PAVEMENT MATERIAL NOTE 2	INCREMENTAL VOL (CY) (UNADJUSTED) FILL NOTE 3	CUMULATIVE VOL (CY) EXPANDED CUT 1.00 NOTE 1	CUMULATIVE VOL (CY) EXPANDED FILL 1.30	CUMULATIVE VOL (CY) MASS ORDINATE NOTE 4
104+00	10400.00	0.00	148.40	0.00	0.00	0	0	0	0	0	0
104+49.9	10449.90	49.90	299.30	0.00	0.00	414	0	0	414	0	414
105+00	10500.00	50.10	400.73	0.00	1.14	649	0	1	1,063	1	1,062
105+50	10550.00	50.00	433.10	0.00	0.00	772	0	1	1,835	3	1,832
106+00	10600.00	50.00	297.55	0.00	0.00	677	0	0	2,512	3	2,509
106+50	10650.00	50.00	299.20	0.00	0.48	553	0	0	3,064	3	3,061
107+00	10700.00	50.00	266.74	0.00	15.53	524	0	15	3,588	23	3,566
107+50	10750.00	50.00	256.92	0.00	49.60	485	0	60	4,073	101	3,972
108+00	10800.00	50.00	247.76	0.00	47.08	467	0	90	4,540	217	4,323
108+50	10850.00	50.00	307.07	0.00	27.45	514	0	69	5,054	307	4,747
109+00	10900.00	50.00	272.01	0.00	14.19	536	0	39	5,590	357	5,233
109+50	10950.00	50.00	255.68	0.00	8.24	489	0	21	6,079	384	5,695
110+00	11000.00	50.00	264.16	0.00	3.37	481	0	11	6,560	398	6,162
110+50	11050.00	50.00	273.17	0.00	0.00	498	0	3	7,058	402	6,656
111+00	11100.00	50.00	321.31	0.00	0.00	550	0	0	7,608	402	7,206
111+50	11150.00	50.00	333.41	0.00	0.00	606	0	0	8,215	402	7,812
112+00	11200.00	50.00	334.71	0.00	0.00	619	0	0	8,833	402	8,431
112+50	11250.00	50.00	328.27	0.00	0.00	614	0	0	9,447	402	9,045
113+00	11300.00	50.00	329.48	0.00	0.00	609	0	0	10,056	402	9,654
113+50	11350.00	50.00	308.41	0.00	0.00	591	0	0	10,647	402	10,244
114+00	11400.00	50.00	318.09	0.00	0.00	580	0	0	11,227	402	10,825
114+50	11450.00	50.00	316.93	0.00	0.57	588	0	1	11,815	403	11,412
115+00	11500.00	50.00	337.13	0.00	8.25	606	0	8	12,420	414	12,007
115+50	11550.00	50.00	417.51	0.00	8.44	699	0	15	13,119	434	12,685
116+00	11600.00	50.00	559.56	0.00	8.61	905	0	16	14,024	454	13,570
116+50	11650.00	50.00	792.40	0.00	3.40	1,252	0	11	15,276	469	14,807
117+00	11700.00	50.00	1079.30	0.00	0.24	1,733	0	3	17,009	473	16,536
117+50	11750.00	50.00	1383.50	0.00	0.00	2,280	0	0	19,289	473	18,816
118+00	11800.00	50.00	1631.28	0.00	0.00	2,791	0	0	22,081	473	21,607
118+50	11850.00	50.00	1896.97	0.00	0.00	3,267	0	0	25,347	473	24,874
119+00	11900.00	50.00	2097.31	0.00	0.00	3,698	0	0	29,046	473	28,573
119+50	11950.00	50.00	2063.26	0.00	0.00	3,852	0	0	32,898	473	32,425
120+00	12000.00	50.00	1656.00	0.00	0.00	3,444	0	0	36,342	473	35,869
120+23.66	12023.66	23.66	0.00	0.00	0.00	725	0	0	37,067	473	36,594
121+00	12100.00	76.34	0.00	0.00	0.00	0	0	0	37,067	473	36,594
121+50	12150.00	50.00	516.90	0.00	0.00	479	0	0	37,546	473	37,073
122+00	12200.00	50.00	1150.58	0.00	0.00	1,544	0	0	39,090	473	38,617
122+50	12250.00	50.00	1179.42	0.00	0.00	2,157	0	0	41,247	473	40,774
123+00	12300.00	50.00	1098.66	0.00	0.00	2,109	0	0	43,357	473	42,883
123+50	12350.00	50.00	1016.58	0.00	0.00	1,959	0	0	45,315	473	44,842
124+00	12400.00	50.00	921.25	0.00	0.00	1,794	0	0	47,110	473	46,636
124+50	12450.00	50.00	807.76	0.00	0.00	1,601	0	0	48,711	473	48,237
125+00	12500.00	50.00	696.12	0.00	0.00	1,392	0	0	50,103	473	49,630
125+50	12550.00	50.00	588.17	0.00	0.00	1,189	0	0	51,292	473	50,819
				TABLE TOTALS		51,292	0	364			

CONTINUED

Stage 3 - STH 57

STATION	REAL STATION	DISTANCE	AREA (SF) CUT	AREA (SF) SALVAGED/UNUSABLE PAVEMENT MATERIAL	AREA (SF) FILL	INCREMENTAL VOL (CY) (UNADJUSTED) CUT NOTE 1	INCREMENTAL VOL (CY) (UNADJUSTED) SALVAGED/UNUSABLE PAVEMENT MATERIAL NOTE 2	INCREMENTAL VOL (CY) (UNADJUSTED) FILL NOTE 3	CUMULATIVE VOL (CY) EXPANDED CUT 1.00 NOTE 1	CUMULATIVE VOL (CY) EXPANDED FILL 1.30	CUMULATIVE VOL (CY) MASS ORDINATE NOTE 4
126+00	12600.00	50.00	514.47	0.00	0.00	1,021	0	0	52,313	473	51,840
126+50	12650.00	50.00	405.11	0.00	8.38	851	0	8	53,165	483	52,681
127+00	12700.00	50.00	335.39	0.00	24.39	686	0	30	53,850	523	53,327
127+50	12750.00	50.00	283.95	0.00	39.79	573	0	59	54,424	600	53,824
128+00	12800.00	50.00	238.94	0.00	47.25	484	0	81	54,908	705	54,203
128+50	12850.00	50.00	194.35	0.00	37.97	401	0	79	55,309	807	54,502
129+00	12900.00	50.00	176.36	0.00	25.43	343	0	59	55,652	884	54,769
129+50	12950.00	50.00	169.97	0.00	13.18	321	0	36	55,973	930	55,043
130+00	13000.00	50.00	167.41	0.00	18.00	312	0	29	56,285	968	55,318
130+50	13050.00	50.00	190.57	0.00	10.60	331	0	26	56,617	1,002	55,615
131+00	13100.00	50.00	215.23	0.00	8.32	376	0	18	56,993	1,025	55,968
131+50	13150.00	50.00	222.42	0.00	5.10	405	0	12	57,398	1,041	56,357
132+00	13200.00	50.00	232.00	0.00	7.33	421	0	12	57,819	1,056	56,763
132+50	13250.00	50.00	227.73	0.00	7.01	426	0	13	58,244	1,073	57,171
133+00	13300.00	50.00	217.67	0.00	6.72	412	0	13	58,657	1,090	57,567
133+50	13350.00	50.00	212.98	0.00	7.67	399	0	13	59,055	1,107	57,948
134+00	13400.00	50.00	220.19	0.00	5.72	401	0	12	59,457	1,123	58,333
134+50	13450.00	50.00	231.48	0.00	4.52	418	0	9	59,875	1,136	58,739
135+00	13500.00	50.00	250.69	0.00	1.14	446	0	5	60,321	1,142	59,179
135+50	13550.00	50.00	251.30	0.00	0.35	465	0	1	60,786	1,144	59,642
136+00	13600.00	50.00	239.25	0.00	1.66	454	0	2	61,240	1,147	60,094
136+50	13650.00	50.00	226.49	0.00	0.00	431	0	2	61,671	1,149	60,523
137+00	13700.00	50.00	198.55	0.00	0.00	394	0	0	62,065	1,149	60,916
112+78	11278.00	0.00	--	0.00	--	0	0	0	62,065	1,149	60,916
120+33	12033.00	755.00	--	0.00	--	640	0	640	62,705	1,981	60,724
112+00	11200.00	0.00	--	0.00	--	0	0	0	62,705	1,981	60,724
120+38	12038.00	838.00	--	0.00	--	654	0	654	63,359	2,831	60,528
121+53	12153.00	0.00	--	0.00	--	0	0	0	63,359	2,831	60,528
128+00	12800.00	647.00	--	0.00	--	470	0	470	63,829	3,442	60,387
				TABLE TOTALS		12,537	0	2,283			
				TOTALS		63,829	0	2,648			

Stage 3 - STH 100

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	EXPANDED CUT 1.00	EXPANDED FILL 1.30	MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 4
480+85.43	48085.43	0.00	13.19	0.00	0.00	0	0	0	0	0	0
481+00	48100.00	14.57	19.20	0.00	0.00	9	0	0	9	0	9
481+50	48150.00	50.00	21.06	0.00	0.00	37	0	0	46	0	46
482+00	48200.00	50.00	120.95	0.00	0.00	131	0	0	178	0	178
482+50	48250.00	50.00	159.72	0.00	0.00	260	0	0	437	0	437
483+00	48300.00	50.00	110.36	0.00	3.74	250	0	3	687	4	683
483+50	48350.00	50.00	137.77	0.00	0.00	230	0	3	917	9	908
484+00	48400.00	50.00	132.77	0.00	0.00	251	0	0	1,168	9	1,159
484+50	48450.00	50.00	134.82	0.00	0.00	248	0	0	1,415	9	1,406
485+00	48500.00	50.00	134.14	0.00	0.00	249	0	0	1,665	9	1,656
485+50	48550.00	50.00	132.14	0.00	0.00	247	0	0	1,911	9	1,902
486+00	48600.00	50.00	134.15	0.00	0.00	247	0	0	2,158	9	2,149
486+50	48650.00	50.00	279.11	0.00	0.00	383	0	0	2,540	9	2,531
486+91.46	48691.46	41.46	160.72	0.00	0.00	338	0	0	2,878	9	2,869
487+00	48700.00	8.54	135.53	0.00	0.00	47	0	0	2,925	9	2,916
487+50	48750.00	50.00	114.68	0.00	0.00	232	0	0	3,156	9	3,148
488+00	48800.00	50.00	105.32	0.00	0.28	204	0	0	3,360	9	3,351
488+50	48850.00	50.00	106.29	0.00	1.11	196	0	1	3,556	11	3,545
489+00	48900.00	50.00	106.33	0.00	0.03	197	0	1	3,753	12	3,741
489+50	48950.00	50.00	105.20	0.00	0.00	196	0	0	3,949	12	3,936
490+00	49000.00	50.00	113.38	0.00	0.00	202	0	0	4,151	12	4,139
490+50	49050.00	50.00	116.48	0.00	0.00	213	0	0	4,364	12	4,352
491+00	49100.00	50.00	120.34	0.00	0.00	219	0	0	4,583	12	4,571
491+50	49150.00	50.00	134.56	0.00	0.16	236	0	0	4,819	13	4,807
491+58.03	49158.03	8.03	179.22	0.00	0.00	47	0	0	4,866	13	4,853
492+00	49200.00	41.97	172.46	0.00	0.10	273	0	0	5,139	13	5,127
492+50	49250.00	50.00	135.86	0.00	0.06	285	0	0	5,425	13	5,412
493+00	49300.00	50.00	147.49	0.00	0.00	262	0	0	5,687	13	5,674
493+50	49350.00	50.00	113.98	0.00	1.12	242	0	1	5,929	14	5,915
494+00	49400.00	50.00	103.30	0.00	4.27	201	0	5	6,130	21	6,110
494+50	49450.00	50.00	83.96	0.00	3.35	173	0	7	6,304	30	6,274
495+00	49500.00	50.00	74.67	0.00	4.24	147	0	7	6,451	39	6,412
495+50	49550.00	50.00	61.93	0.00	19.43	126	0	22	6,577	68	6,510
496+00	49600.00	50.00	33.96	0.00	18.40	89	0	35	6,666	113	6,553
496+50	49650.00	50.00	39.51	0.00	40.11	68	0	54	6,734	184	6,550
497+00	49700.00	50.00	35.73	0.00	40.12	70	0	74	6,804	280	6,524
497+50	49750.00	50.00	384.24	0.00	31.91	389	0	67	7,193	367	6,826
497+68.22	49768.22	18.22	758.88	0.00	16.27	386	0	16	7,578	388	7,190
498+00	49800.00	31.78	6.98	0.00	4.99	451	0	13	8,029	404	7,625
498+50	49850.00	50.00	16.65	0.00	0.00	22	0	5	8,051	410	7,641
499+00	49900.00	50.00	334.04	0.00	0.00	325	0	0	8,376	410	7,965
499+33.97	49933.97	33.97	214.95	0.00	0.00	345	0	0	8,721	410	8,311
499+50	49950.00	16.03	168.70	0.00	0.00	114	0	0	8,835	410	8,424
500+00	50000.00	50.00	239.01	0.00	0.00	378	0	0	9,212	410	8,802
				TABLE TOTALS		9,212	0	316			

CONTINUED

Stage 3 - STH 100

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	EXPANDED CUT 1.00	EXPANDED FILL 1.30	MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 4
500+50	50050.00	50.00	227.91	0.00	0.00	432	0	0	9,645	410	9,234
501+00	50100.00	50.00	199.90	0.00	0.02	396	0	0	10,041	410	9,630
501+50	50150.00	50.00	179.93	0.00	49.88	352	0	46	10,392	470	9,922
502+00	50200.00	50.00	156.83	0.00	97.39	312	0	136	10,704	648	10,057
502+50	50250.00	50.00	66.70	0.00	114.63	207	0	196	10,911	903	10,008
503+00	50300.00	50.00	84.58	0.00	7.17	140	0	113	11,051	1,049	10,002
503+50	50350.00	50.00	30.87	0.00	0.00	107	0	7	11,158	1,058	10,100
504+00	50400.00	50.00	31.64	0.00	0.00	58	0	0	11,216	1,058	10,158
504+50	50450.00	50.00	31.69	0.00	0.00	59	0	0	11,275	1,058	10,217
505+00	50500.00	50.00	31.40	0.00	0.00	58	0	0	11,333	1,058	10,275
505+50	50550.00	50.00	31.28	0.00	0.00	58	0	0	11,391	1,058	10,333
506+00	50600.00	50.00	31.37	0.00	0.00	58	0	0	11,449	1,058	10,391
506+50	50650.00	50.00	30.92	0.00	0.00	58	0	0	11,507	1,058	10,449
506+76.04	50676.04	26.04	22.90	0.00	0.00	26	0	0	11,533	1,058	10,475
				TABLE TOTALS		2,321	0	498			
				TOTALS		11,533	0	814			

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Stage 4A - STH 100

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	EXPANDED CUT 1.00	EXPANDED FILL 1.30	MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 4
493+50	49350.00	0.00	28.00	0.00	0.00	26	0	0	0	0	0
494+00	49400.00	50.00	24.31	0.00	0.00	48	0	0	48	0	48
494+50	49450.00	50.00	20.49	0.00	0.00	41	0	0	90	0	90
495+00	49500.00	50.00	17.00	0.00	0.00	35	0	0	125	0	125
495+50	49550.00	50.00	11.84	0.00	0.00	27	0	0	151	0	151
496+00	49600.00	50.00	6.86	0.00	0.00	17	0	0	169	0	169
496+50	49650.00	50.00	1.06	0.00	0.07	7	0	0	176	0	176
497+00	49700.00	50.00	0.39	0.00	0.65	1	0	1	177	1	176
497+50	49750.00	50.00	0.33	0.00	0.04	1	0	1	178	2	176
498+00	49800.00	50.00	3.59	0.00	0.00	4	0	0	182	2	180
498+50	49850.00	50.00	11.97	0.00	0.00	14	0	0	196	2	194
499+00	49900.00	50.00	25.54	0.00	0.00	35	0	0	231	2	229
499+50	49950.00	50.00	26.47	0.00	0.00	48	0	0	279	2	277
500+00	50000.00	50.00	27.33	0.00	0.00	50	0	0	329	2	327
500+50	50050.00	50.00	31.02	0.00	0.00	54	0	0	383	2	381
501+00	50100.00	50.00	31.55	0.00	0.00	58	0	0	441	2	439
501+50	50150.00	50.00	32.16	0.00	0.00	59	0	0	500	2	498
502+00	50200.00	50.00	30.84	0.00	0.00	58	0	0	558	2	556
502+50	50250.00	50.00	0.00	0.00	0.00	29	0	0	587	2	585
499+78	49978.00	0.00	0.00	0.00	0.00	0	0	0	587	2	585
501+49	50149.00	171.00	0.00	0.00	0.00	108	0	0	695	2	693
				TOTALS		721	0	1			

Stage 4B - STH 100

STATION	REAL STATION	DISTANCE	AREA (SF) CUT	AREA (SF) SALVAGED/UNUSABLE PAVEMENT MATERIAL	AREA (SF) FILL	INCREMENTAL VOL (CY) (UNADJUSTED) CUT NOTE 1	INCREMENTAL VOL (CY) (UNADJUSTED) SALVAGED/UNUSABLE PAVEMENT MATERIAL NOTE 2	INCREMENTAL VOL (CY) (UNADJUSTED) FILL NOTE 3	CUMULATIVE VOL (CY) EXPANDED CUT 1.00 NOTE 1	CUMULATIVE VOL (CY) EXPANDED FILL 1.30	CUMULATIVE VOL (CY) MASS ORDINATE NOTE 4
497+65	49765.00	0.00	--	0.00	0.00	0	0	0	0	0	0
499+25	49925.00	160.00	--	0.00	0.00	788	0	0	788	0	788
498+95	49894.00	0.00	--	0.00	0.00	0	0	0	788	0	788
498+95	49940.00	46.00	--	0.00	0.00	52	0	0	840	0	840
				TOTALS		840	0	0			

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Stage 5 - STH 57

STATION	REAL STATION	DISTANCE	AREA (SF) CUT	AREA (SF) SALVAGED/UNUSABLE PAVEMENT MATERIAL	AREA (SF) FILL	INCREMENTAL VOL (CY) (UNADJUSTED) CUT NOTE 1	INCREMENTAL VOL (CY) (UNADJUSTED) SALVAGED/UNUSABLE PAVEMENT MATERIAL NOTE 2	INCREMENTAL VOL (CY) (UNADJUSTED) FILL NOTE 3	CUMULATIVE VOL (CY) EXPANDED CUT 1.00 NOTE 1	CUMULATIVE VOL (CY) EXPANDED FILL 1.30	CUMULATIVE VOL (CY) MASS ORDINATE NOTE 4
121+00	12100.00	0.00	0.06	0.00	0.00	0	0	0	0	0	0
121+50	12150.00	50.00	0.00	0.00	0.00	0	0	0	0	0	0
122+00	12200.00	50.00	1229.45	0.00	0.00	1,138	0	0	1,138	0	1,138
122+50	12250.00	50.00	1512.39	0.00	0.00	2,539	0	0	3,677	0	3,677
123+00	12300.00	50.00	1511.40	0.00	0.00	2,800	0	0	6,477	0	6,477
123+50	12350.00	50.00	1522.64	0.00	0.00	2,809	0	0	9,286	0	9,286
124+00	12400.00	50.00	1478.31	0.00	0.00	2,779	0	0	12,065	0	12,065
124+50	12450.00	50.00	1376.20	0.00	0.00	2,643	0	0	14,708	0	14,708
125+00	12500.00	50.00	1191.64	0.00	0.00	2,378	0	0	17,086	0	17,086
125+50	12550.00	50.00	998.95	0.00	0.00	2,028	0	0	19,114	0	19,114
126+00	12600.00	50.00	796.30	0.00	0.00	1,662	0	0	20,776	0	20,776
126+50	12650.00	50.00	639.92	0.00	0.00	1,330	0	0	22,106	0	22,106
127+00	12700.00	50.00	485.25	0.00	0.00	1,042	0	0	23,148	0	23,148
127+50	12750.00	50.00	342.50	0.00	0.03	766	0	0	23,914	0	23,914
128+00	12800.00	50.00	247.58	0.00	0.01	546	0	0	24,461	0	24,461
128+50	12850.00	50.00	175.60	0.00	0.00	392	0	0	24,853	0	24,852
129+00	12900.00	50.00	135.87	0.00	0.00	288	0	0	25,141	0	25,141
129+50	12950.00	50.00	120.47	0.00	0.43	237	0	0	25,378	1	25,378
130+00	13000.00	50.00	111.64	0.00	11.50	215	0	11	25,593	15	25,578
130+50	13050.00	50.00	108.21	0.00	4.51	204	0	15	25,797	34	25,762
131+00	13100.00	50.00	121.19	0.00	0.00	212	0	4	26,009	40	25,969
131+50	13150.00	50.00	118.14	0.00	0.00	222	0	0	26,231	40	26,191
132+00	13200.00	50.00	119.18	0.00	0.00	220	0	0	26,451	40	26,411
132+50	13250.00	50.00	125.09	0.00	0.00	226	0	0	26,677	40	26,637
133+00	13300.00	50.00	128.15	0.00	0.00	234	0	0	26,911	40	26,871
133+50	13350.00	50.00	149.90	0.00	0.00	257	0	0	27,169	40	27,129
134+00	13400.00	50.00	145.80	0.00	0.00	274	0	0	27,442	40	27,403
134+50	13450.00	50.00	139.66	0.00	24.87	264	0	23	27,707	70	27,637
135+00	13500.00	50.00	135.88	0.00	58.27	255	0	77	27,962	170	27,792
135+50	13550.00	50.00	126.77	0.00	130.15	243	0	174	28,205	397	27,809
136+00	13600.00	50.00	132.35	0.00	69.81	240	0	185	28,445	637	27,808
136+50	13650.00	50.00	131.83	0.00	15.30	245	0	79	28,690	740	27,950
137+00	13700.00	50.00	138.18	0.00	0.00	250	0	14	28,940	758	28,182
121+28	12128.00	0.00	--	0.00	--	0	0	0	28,940	758	28,182
129+95	12995.00	867.00	--	0.00	--	706	0	706	29,646	1,676	27,970
				TOTALS		29,646	0	1,289			

Stage 5 - STH 100

STATION	REAL STATION	DISTANCE	AREA (SF) CUT	AREA (SF) SALVAGED/UNUSABLE PAVEMENT MATERIAL	AREA (SF) FILL	INCREMENTAL VOL (CY) (UNADJUSTED) CUT NOTE 1	INCREMENTAL VOL (CY) (UNADJUSTED) SALVAGED/UNUSABLE PAVEMENT MATERIAL NOTE 2	INCREMENTAL VOL (CY) (UNADJUSTED) FILL NOTE 3	CUMULATIVE VOL (CY) EXPANDED CUT 1.00 NOTE 1	CUMULATIVE VOL (CY) EXPANDED FILL 1.30	CUMULATIVE VOL (CY) MASS ORDINATE NOTE 4
482+00	48200.00	0.00	138.08	0.00	0.00	0	0	0	0	0	0
482+50	48250.00	50.00	125.85	0.00	0.81	244	0	1	244	1	243
483+00	48300.00	50.00	106.53	0.00	5.43	215	0	6	460	8	451
483+50	48350.00	50.00	112.09	0.00	0.00	202	0	5	662	15	647
484+00	48400.00	50.00	120.83	0.00	0.00	216	0	0	878	15	863
484+50	48450.00	50.00	126.67	0.00	0.00	229	0	0	1,107	15	1,092
485+00	48500.00	50.00	135.94	0.00	0.00	243	0	0	1,350	15	1,335
485+50	48550.00	50.00	138.23	0.00	0.00	254	0	0	1,604	15	1,589
486+00	48600.00	50.00	140.43	0.00	0.00	258	0	0	1,862	15	1,847
486+50	48650.00	50.00	180.49	0.00	0.00	297	0	0	2,159	15	2,144
487+00	48700.00	50.00	320.03	0.00	0.00	463	0	0	2,622	15	2,607
487+50	48750.00	50.00	129.97	0.00	0.00	417	0	0	3,039	15	3,024
488+00	48800.00	50.00	154.58	0.00	0.00	263	0	0	3,303	15	3,288
488+50	48850.00	50.00	177.13	0.00	0.00	307	0	0	3,610	15	3,595
489+00	48900.00	50.00	179.36	0.00	0.00	330	0	0	3,940	15	3,925
489+50	48950.00	50.00	198.94	0.00	0.00	350	0	0	4,290	15	4,275
490+00	49000.00	50.00	203.53	0.00	0.00	373	0	0	4,663	15	4,648
490+50	49050.00	50.00	217.25	0.00	0.00	390	0	0	5,052	15	5,037
491+00	49100.00	50.00	223.75	0.00	0.00	408	0	0	5,461	15	5,446
491+50	49150.00	50.00	362.03	0.00	0.00	542	0	0	6,003	15	5,988
492+00	49200.00	50.00	238.30	0.00	0.00	556	0	0	6,559	15	6,544
492+50	49250.00	50.00	229.94	0.00	0.00	434	0	0	6,992	15	6,977
493+00	49300.00	50.00	215.95	0.00	0.00	413	0	0	7,405	15	7,390
493+50	49350.00	50.00	184.82	0.00	0.00	371	0	0	7,776	15	7,761
494+00	49400.00	50.00	133.39	0.00	0.51	295	0	0	8,071	16	8,055
494+50	49450.00	50.00	102.99	0.00	4.17	219	0	4	8,290	21	8,269
495+00	49500.00	50.00	81.85	0.00	12.67	171	0	16	8,461	42	8,420
495+50	49550.00	50.00	73.30	0.00	11.02	144	0	22	8,605	70	8,535
496+00	49600.00	50.00	33.75	0.00	11.45	99	0	21	8,704	97	8,607
496+50	49650.00	50.00	36.09	0.00	7.59	65	0	18	8,769	120	8,649
497+00	49700.00	50.00	88.00	0.00	0.00	115	0	7	8,883	129	8,754
497+50	49750.00	50.00	540.54	0.00	0.00	582	0	0	9,465	129	9,336
498+00	49800.00	50.00	149.32	0.00	0.00	639	0	0	10,104	129	9,975
498+40	49840.00	40.00	162.14	0.00	0.00	231	0	0	10,335	129	10,206
498+50	49850.00	10.00	0.00	0.00	0.00	30	0	0	10,365	129	10,236
499+00	49900.00	50.00	0.00	0.00	0.00	0	0	0	10,365	129	10,236
499+24.65	49924.65	24.65	97.73	0.00	0.00	45	0	0	10,410	129	10,280
499+50	49950.00	25.35	107.37	0.00	0.00	96	0	0	10,506	129	10,377
500+00	50000.00	50.00	130.90	0.00	0.00	221	0	0	10,726	129	10,597
500+50	50050.00	50.00	143.62	0.00	0.00	254	0	0	10,981	129	10,851
501+00	50100.00	50.00	143.80	0.00	0.00	266	0	0	11,247	129	11,118
501+50	50150.00	50.00	128.81	0.00	0.00	252	0	0	11,499	129	11,370
502+00	50200.00	50.00	114.50	0.00	0.00	225	0	0	11,724	129	11,595
502+50	50250.00	50.00	130.18	0.00	0.00	227	0	0	11,951	129	11,822
				TABLE TOTALS		11,951	0	99			

CONTINUED

Stage 5 - STH 100

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	EXPANDED CUT 1.00	EXPANDED FILL 1.30	MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 4
503+00	50300.00	50.00	129.17	0.00	0.00	240	0	0	12,191	129	12,062
503+50	50350.00	50.00	124.81	0.00	0.00	235	0	0	12,426	129	12,297
504+00	50400.00	50.00	155.73	0.00	0.00	260	0	0	12,686	129	12,557
504+50	50450.00	50.00	153.56	0.00	0.00	286	0	0	12,972	129	12,843
505+00	50500.00	50.00	151.70	0.00	0.00	283	0	0	13,255	129	13,126
505+50	50550.00	50.00	146.31	0.00	0.00	276	0	0	13,531	129	13,402
506+00	50600.00	50.00	147.83	0.00	0.00	272	0	0	13,803	129	13,674
506+50	50650.00	50.00	151.53	0.00	0.00	277	0	0	14,081	129	13,951
				TABLE TOTALS		2,130	0	0			
				TOTALS		14,081	0	99			

Stage 6 - STH 100

STATION	REAL STATION	DISTANCE	AREA (SF) CUT	AREA (SF) SALVAGED/UNUSABLE PAVEMENT MATERIAL	AREA (SF) FILL	INCREMENTAL VOL (CY) (UNADJUSTED) CUT NOTE 1	INCREMENTAL VOL (CY) (UNADJUSTED) SALVAGED/UNUSABLE PAVEMENT MATERIAL NOTE 2	INCREMENTAL VOL (CY) (UNADJUSTED) FILL NOTE 3	CUMULATIVE VOL (CY) EXPANDED CUT 1.00 NOTE 1	CUMULATIVE VOL (CY) EXPANDED FILL 1.30	CUMULATIVE VOL (CY) MASS ORDINATE NOTE 4
476+38	47638.00	0.00	--	0.00	--	0	0	0	0	0	0
480+15	48015.00	377.00	--	0.00	--	134	0	295	134	384	-250
482+00	48200.00	0.00	13.50	0.00	0.00	0	0	0	0	384	-250
482+50	48250.00	50.00	21.56	0.00	0.00	32	0	0	32	384	-217
483+00	48300.00	50.00	20.32	0.00	0.00	39	0	0	71	384	-178
483+50	48350.00	50.00	39.49	0.00	0.00	55	0	0	127	384	-123
484+00	48400.00	50.00	63.41	0.00	0.00	95	0	0	222	384	-28
484+50	48450.00	50.00	91.58	0.00	0.00	144	0	0	365	384	116
485+00	48500.00	50.00	87.75	0.00	0.00	166	0	0	531	384	282
485+50	48550.00	50.00	88.82	0.00	0.00	163	0	0	695	384	445
486+00	48600.00	50.00	88.55	0.00	0.00	164	0	0	859	384	610
486+50	48650.00	50.00	0.00	0.00	0.00	82	0	0	941	384	692
487+00	48700.00	50.00	0.00	0.00	0.00	0	0	0	941	384	692
487+50	48750.00	50.00	86.84	0.00	0.00	80	0	0	1,022	384	772
488+00	48800.00	50.00	100.21	0.00	0.00	173	0	0	1,195	384	945
488+50	48850.00	50.00	96.80	0.00	0.00	182	0	0	1,377	384	1,128
489+00	48900.00	50.00	89.81	0.00	0.00	173	0	0	1,550	384	1,300
489+50	48950.00	50.00	80.60	0.00	0.00	158	0	0	1,708	384	1,458
490+00	49000.00	50.00	68.08	0.00	0.00	138	0	0	1,845	384	1,596
490+50	49050.00	50.00	40.40	0.00	0.00	100	0	0	1,946	384	1,696
491+00	49100.00	50.00	28.93	0.00	0.00	64	0	0	2,010	384	1,761
491+50	49150.00	50.00	30.01	0.00	0.00	55	0	0	2,065	384	1,815
492+00	49200.00	50.00	31.23	0.00	0.00	57	0	0	2,121	384	1,872
492+50	49250.00	50.00	32.74	0.00	0.00	59	0	0	2,181	384	1,931
493+00	49300.00	50.00	45.77	0.00	0.00	73	0	0	2,253	384	2,004
493+50	49350.00	50.00	62.91	0.00	0.00	101	0	0	2,354	384	2,104
494+00	49400.00	50.00	77.94	0.00	0.00	130	0	0	2,484	384	2,235
494+50	49450.00	50.00	82.62	0.00	0.00	149	0	0	2,633	384	2,383
495+00	49500.00	50.00	90.59	0.00	0.00	160	0	0	2,793	384	2,544
495+50	49550.00	50.00	85.21	0.00	0.00	163	0	0	2,956	384	2,707
496+00	49600.00	50.00	65.55	0.00	0.00	140	0	0	3,096	384	2,846
496+50	49650.00	50.00	29.11	0.00	0.00	88	0	0	3,183	384	2,934
497+00	49700.00	50.00	27.43	0.00	0.00	52	0	0	3,236	384	2,986
497+50	49750.00	50.00	17.15	0.00	0.00	41	0	0	3,277	384	3,027
498+00	49800.00	50.00	26.04	0.00	0.00	40	0	0	3,317	384	3,067
498+50	49850.00	50.00	213.16	0.00	0.00	221	0	0	3,539	384	3,289
499+00	49900.00	50.00	162.96	0.00	0.00	348	0	0	3,887	384	3,637
499+50	49950.00	50.00	137.99	0.00	8.98	279	0	8	4,165	395	3,905
500+00	50000.00	50.00	140.75	0.00	0.00	258	0	8	4,424	405	4,152
500+50	50050.00	50.00	164.55	0.00	0.00	283	0	0	4,706	405	4,435
501+00	50100.00	50.00	168.29	0.00	0.00	308	0	0	5,014	405	4,743
501+50	50150.00	50.00	144.32	0.00	0.00	289	0	0	5,304	405	5,033
502+00	50200.00	50.00	144.15	0.00	0.00	267	0	0	5,571	405	5,300
502+50	50250.00	50.00	122.70	0.00	0.00	247	0	0	5,818	405	5,547
				TABLE TOTALS		5,952	0	312			

CONTINUED

Stage 6 - STH 100

STATION	REAL STATION	DISTANCE	AREA (SF) CUT	AREA (SF) SALVAGED/UNUSABLE PAVEMENT MATERIAL	AREA (SF) FILL	INCREMENTAL VOL (CY) (UNADJUSTED) CUT NOTE 1	INCREMENTAL VOL (CY) (UNADJUSTED) SALVAGED/UNUSABLE PAVEMENT MATERIAL NOTE 2	INCREMENTAL VOL (CY) (UNADJUSTED) FILL NOTE 3	CUMULATIVE VOL (CY) CUT 1.00 NOTE 1	CUMULATIVE VOL (CY) EXPANDED FILL 1.30	CUMULATIVE VOL (CY) MASS ORDINATE NOTE 4
503+00	50300.00	50.00	102.79	0.00	0.00	209	0	0	6,027	405	5,756
503+50	50350.00	50.00	118.71	0.00	0.10	205	0	0	6,232	405	5,961
504+00	50400.00	50.00	62.93	0.00	0.00	168	0	0	6,400	406	6,129
504+50	50450.00	50.00	48.48	0.00	0.00	103	0	0	6,503	406	6,232
505+00	50500.00	50.00	43.80	0.00	0.00	85	0	0	6,589	406	6,317
505+50	50550.00	50.00	39.15	0.00	0.00	77	0	0	6,665	406	6,394
506+00	50600.00	50.00	34.03	0.00	0.00	68	0	0	6,733	406	6,462
506+50	50650.00	50.00	30.82	0.00	0.00	60	0	0	6,793	406	6,522
517+74	51774.00	1124.00	--	0.00	0.00	0	0	0	6,793	406	6,522
524+51	52451.00	677.00	--	0.00	--	223	0	490	7,016	1,043	6,107
MISC	Temp HMA	0.00	--	0.00	--	158	0	280	7,175	1,407	5,902
				TABLE TOTALS		1,357	0	770			
				TOTALS		7,309	0	1,082			

STH 57 Widening

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	EXPANDED CUT 1.00	EXPANDED FILL 1.30	MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 4
221+84.051	22184.051	0	16.29	0	0	0	0	0	0	0	0
222+00.000	22200.00	15.95	17.79	0	0	10.07	0	0	10	0	10
222+50.000	22250.00	50.00	22.03	0	0	36.87	0	0	47	0	47
223+00.000	22300.00	50.00	22.04	0	0	40.81	0	0	88	0	88
223+50.000	22350.00	50.00	19.98	0	0	38.91	0	0	127	0	127
224+00.000	22400.00	50.00	19.94	0	0	36.96	0	0	164	0	164
224+50.000	22450.00	50.00	21.51	0	0	38.38	0	0	202	0	202
225+00.000	22500.00	50.00	30.83	0	0	48.46	0	0	250	0	250
225+50.000	22550.00	50.00	47.46	0	0	72.49	0	0	323	0	323
226+00.000	22600.00	50.00	76.6	0	0	114.87	0	0	438	0	438
226+50.000	22650.00	50.00	49.93	0	7.83	117.16	0	7.25	555	9	546
227+00.000	22700.00	50.00	47.23	0	8.46	89.96	0	15.08	645	29	616
227+50.000	22750.00	50.00	42.11	0	7.55	82.72	0	14.82	728	48	679
228+00.000	22800.00	50.00	41.15	0	7.19	77.09	0	13.64	805	66	739
228+50.000	22850.00	50.00	41.54	0	7.25	76.56	0	13.37	881	83	798
229+00.000	22900.00	50.00	38.13	0	3.25	73.77	0	9.72	955	96	859
229+50.000	22950.00	50.00	32.79	0	4.66	65.66	0	7.33	1,021	106	915
230+00.000	23000.00	50.00	47.14	0	0	74.01	0	4.32	1,095	111	984
230+50.000	23050.00	50.00	54.06	0	0.02	93.7	0	0.02	1,188	111	1,077
231+00.000	23100.00	50.00	50.58	0	0	96.89	0	0.02	1,285	111	1,174
231+50.000	23150.00	50.00	49	0	6.67	92.21	0	6.18	1,378	119	1,258
232+00.000	23200.00	50.00	56.09	0	1.95	97.31	0	7.99	1,475	130	1,345
232+50.000	23250.00	50.00	59.4	0	3.73	106.93	0	5.26	1,582	137	1,445
233+00.000	23300.00	50.00	77.45	0	2.05	126.71	0	5.36	1,709	143	1,565
233+50.000	23350.00	50.00	53.73	0	0.27	121.46	0	2.15	1,830	146	1,684
234+00.000	23400.00	50.00	29.57	0	0	77.13	0	0.25	1,907	147	1,761
234+50.000	23450.00	50.00	28.47	0	0	53.74	0	0	1,961	147	1,814
235+00.000	23500.00	50.00	16.07	0	0	41.25	0	0	2,002	147	1,855
235+50.000	23550.00	50.00	16.97	0	0	30.59	0	0	2,033	147	1,886
236+00.000	23600.00	50.00	17.44	0	0	31.86	0	0	2,065	147	1,918
236+50.000	23650.00	50.00	16.37	0	0	31.31	0	0	2,096	147	1,949
237+00.000	23700.00	50.00	19	0	0	32.75	0	0	2,129	147	1,982
237+50.000	23750.00	50.00	30.47	0	0	45.81	0	0	2,174	147	2,028
237+75.517	23775.51	25.51	35.04	0	0	30.96	0	0	2,205	147	2,059
					TOTALS	2,205	0	113			

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Donges Bay Road

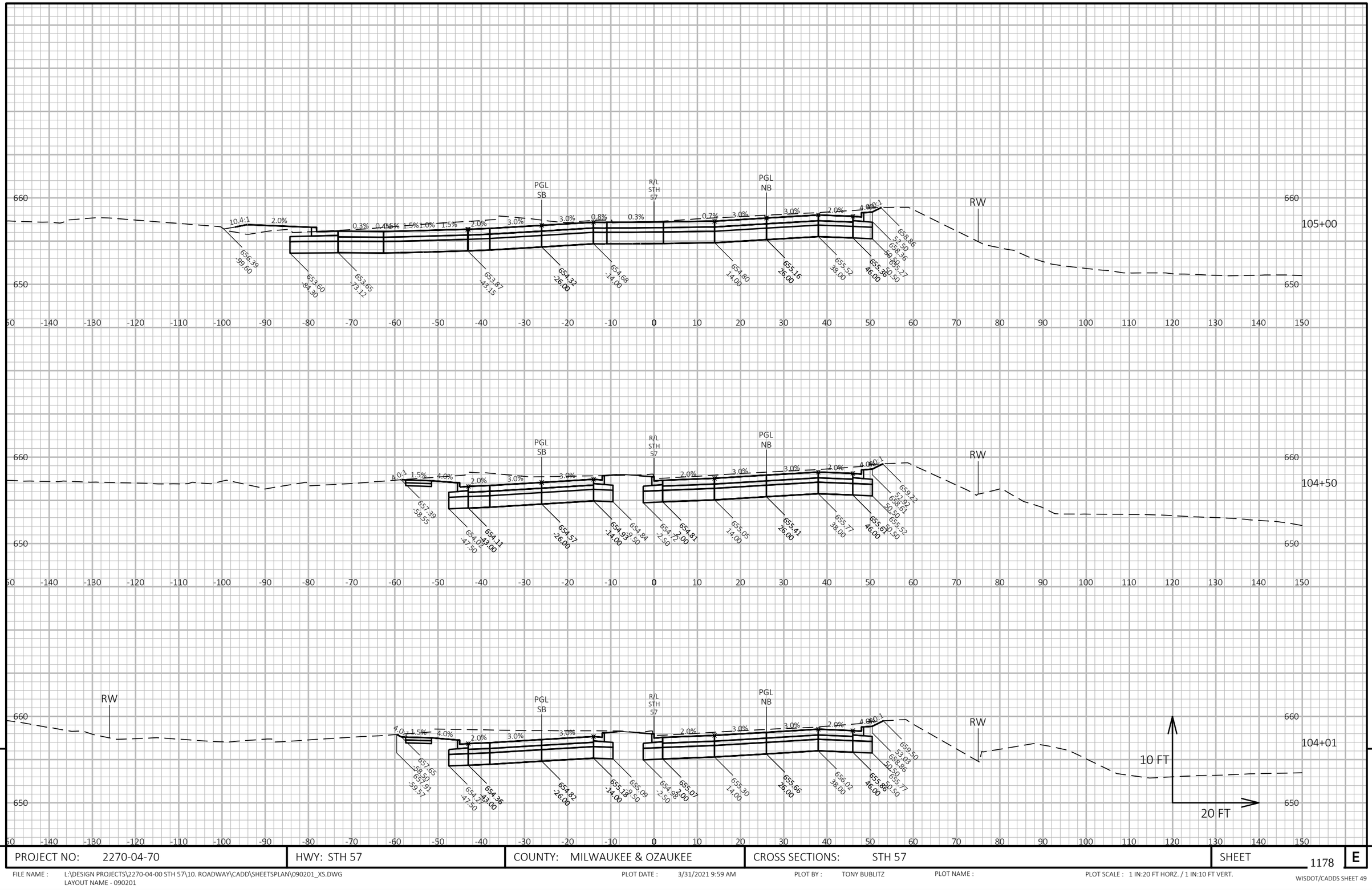
STATION	REAL STATION	DISTANCE	AREA (SF) CUT	AREA (SF) SALVAGED/UNUSABLE PAVEMENT MATERIAL	AREA (SF) FILL	INCREMENTAL VOL (CY) (UNADJUSTED) CUT NOTE 1	INCREMENTAL VOL (CY) (UNADJUSTED) SALVAGED/UNUSABLE PAVEMENT MATERIAL NOTE 2	INCREMENTAL VOL (CY) (UNADJUSTED) FILL NOTE 3	CUMULATIVE VOL (CY) CUT 1.00 NOTE 1	CUMULATIVE VOL (CY) EXPANDED FILL 1.30	CUMULATIVE VOL (CY) MASS ORDINATE NOTE 4
50+79.134	5079.134	0	6.21	0	0	0	0	0	0	0	0
51+00.000	5100.0000	20.87	11.64	0	0	6.9	0	0	6.9	0	6.9
51+50.000	5150.0000	50.00	39.83	0	0	47.66	0	0	54.56	0	54.56
52+00.000	5200.0000	50.00	37.22	0	0	71.34	0	0	125.9	0	125.9
52+50.000	5250.0000	50.00	5.25	0	0.05	39.33	0	0.05	165.23	0.07	165.17
52+57.051	5257.051	7.05	4.49	0	0.11	1.27	0	0.02	166.5	0.09	166.41
				TOTALS		167	0	0			

9

9

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	EARTHWORK	SHEET 1177 E

FILE NAME : PLOT DATE : 4/9/2021 10:05 AM PLOT BY : PLOT NAME : 090101_ew PLOT SCALE : 1.000000:1.000000



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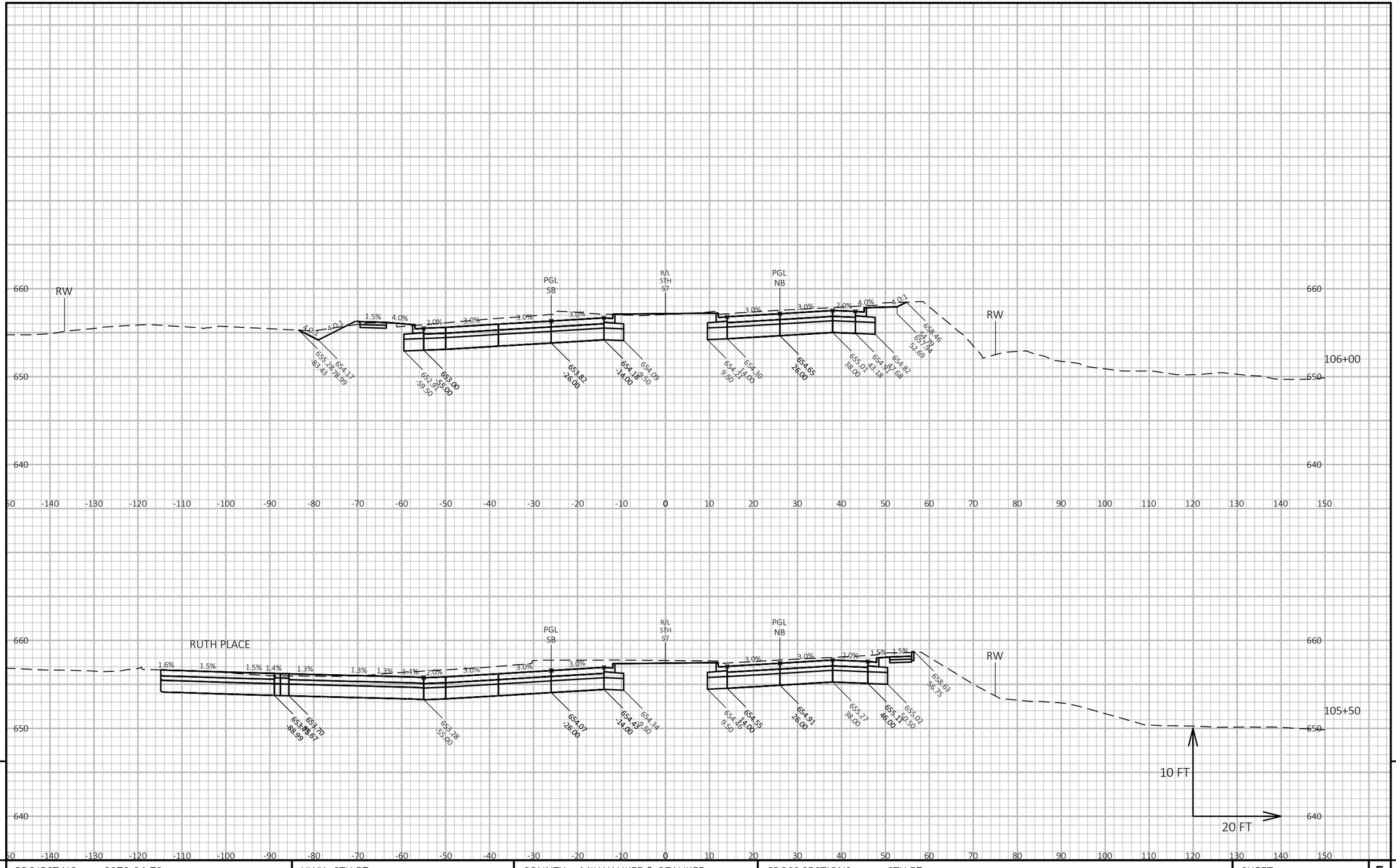
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PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CROSS SECTIONS: STH 57	SHEET 1178	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201

PLOT DATE : 3/31/2021 9:59 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

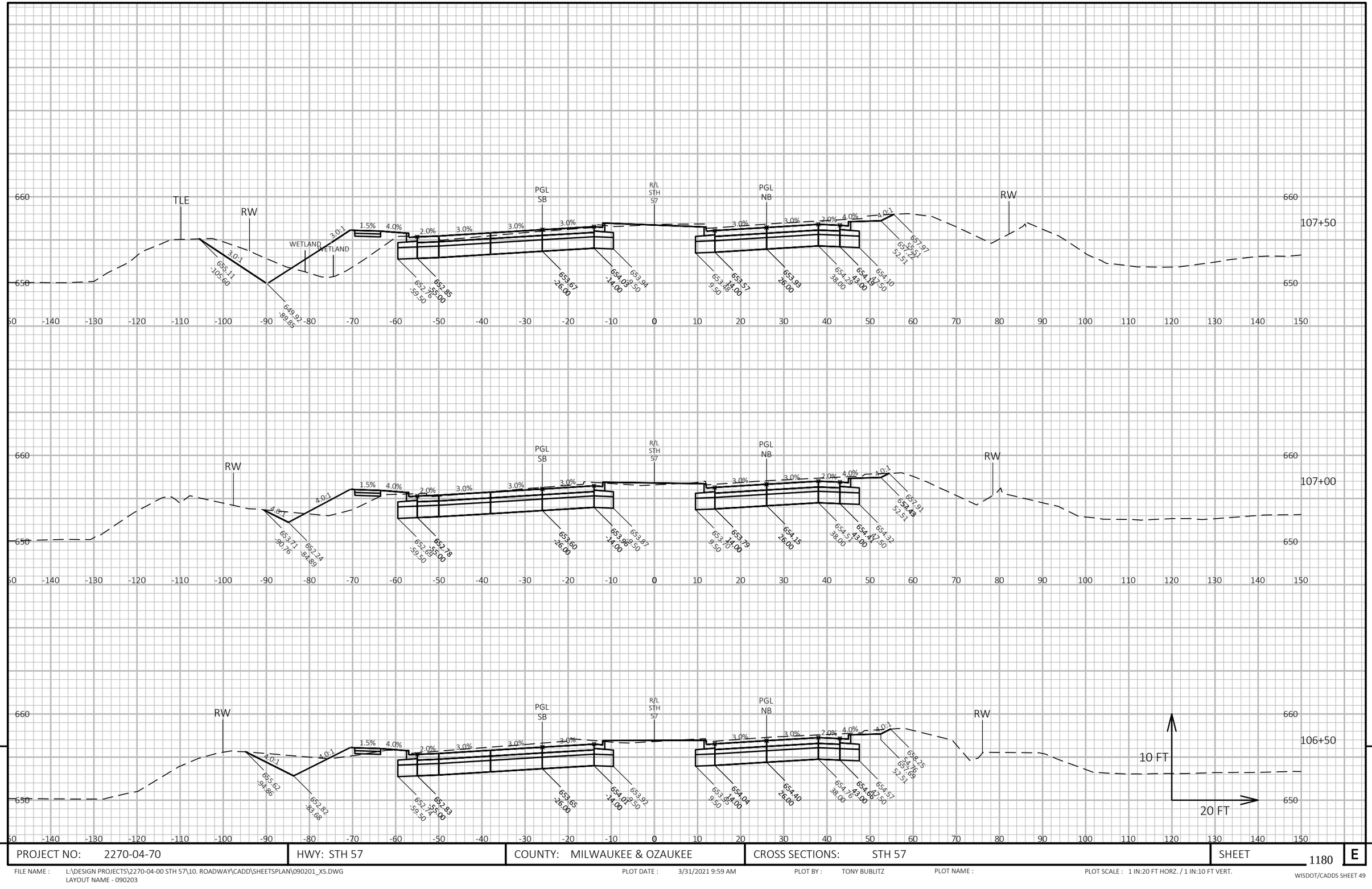


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LAYOUT NAME - 090202

PLOT DATE : 3/31/2021 9:59 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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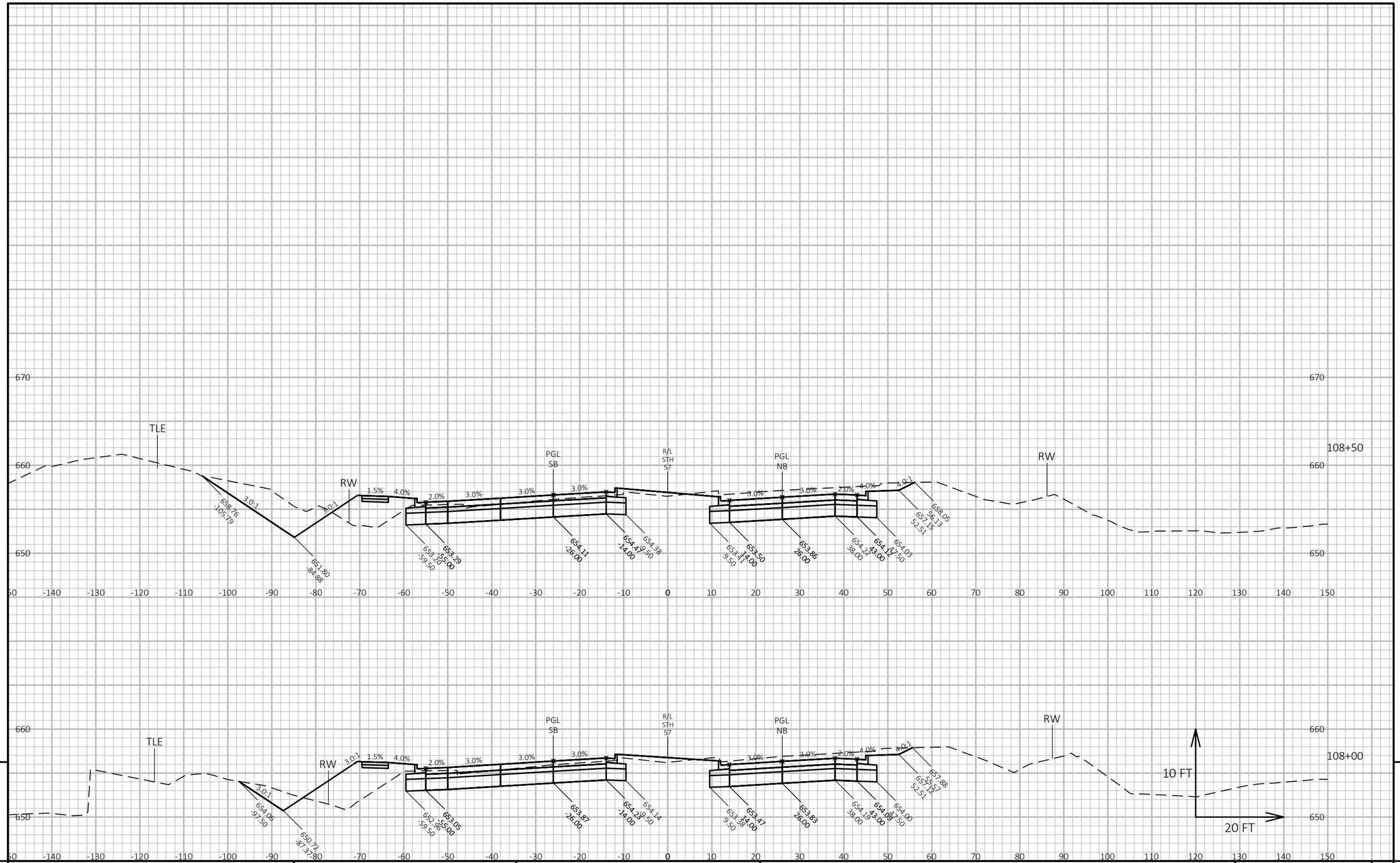
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FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090203

PLOT DATE : 3/31/2021 9:59 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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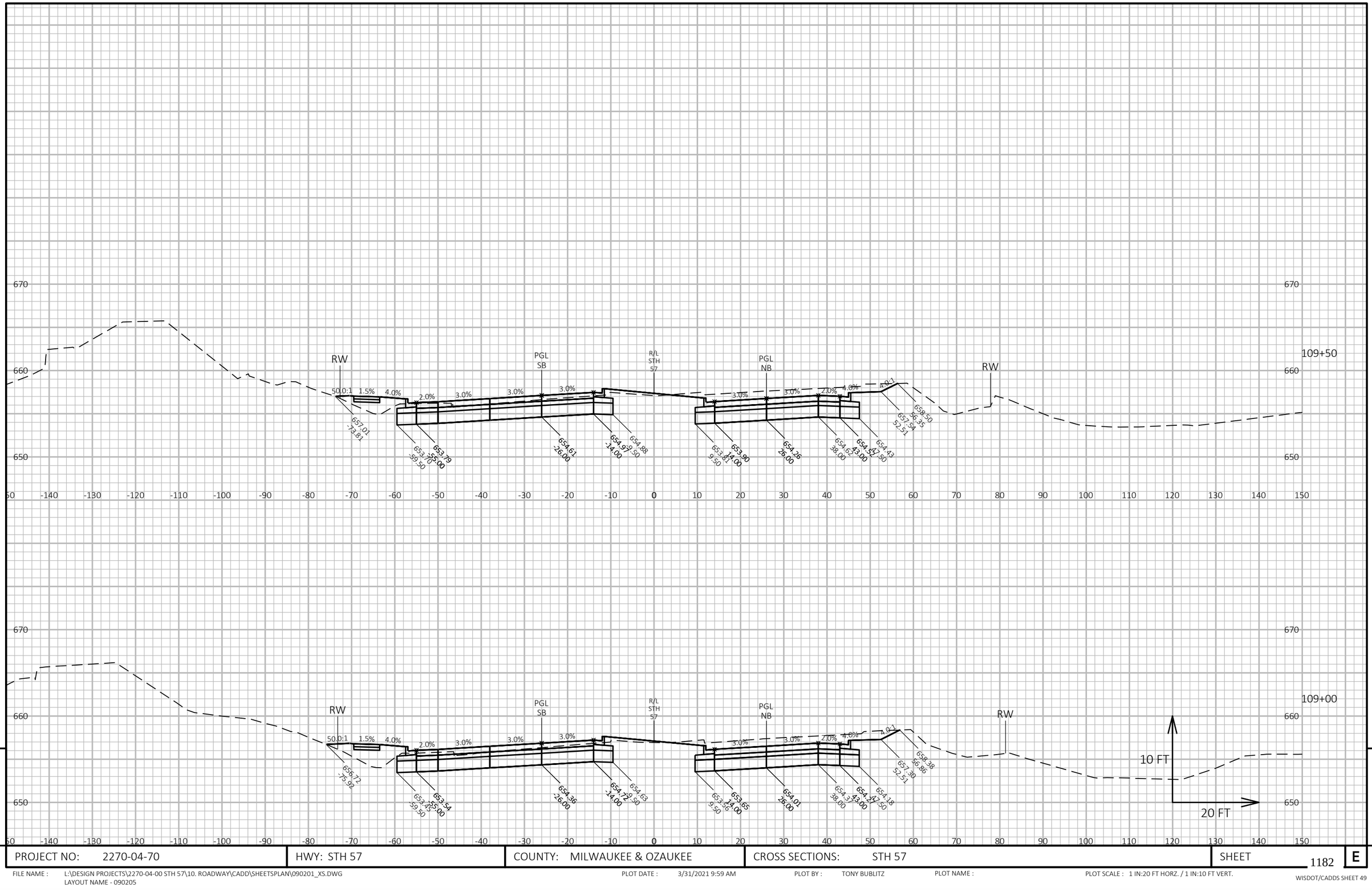
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PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CROSS SECTIONS: STH 57	SHEET 1181 E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090204

PLOT DATE : 3/31/2021 9:59 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



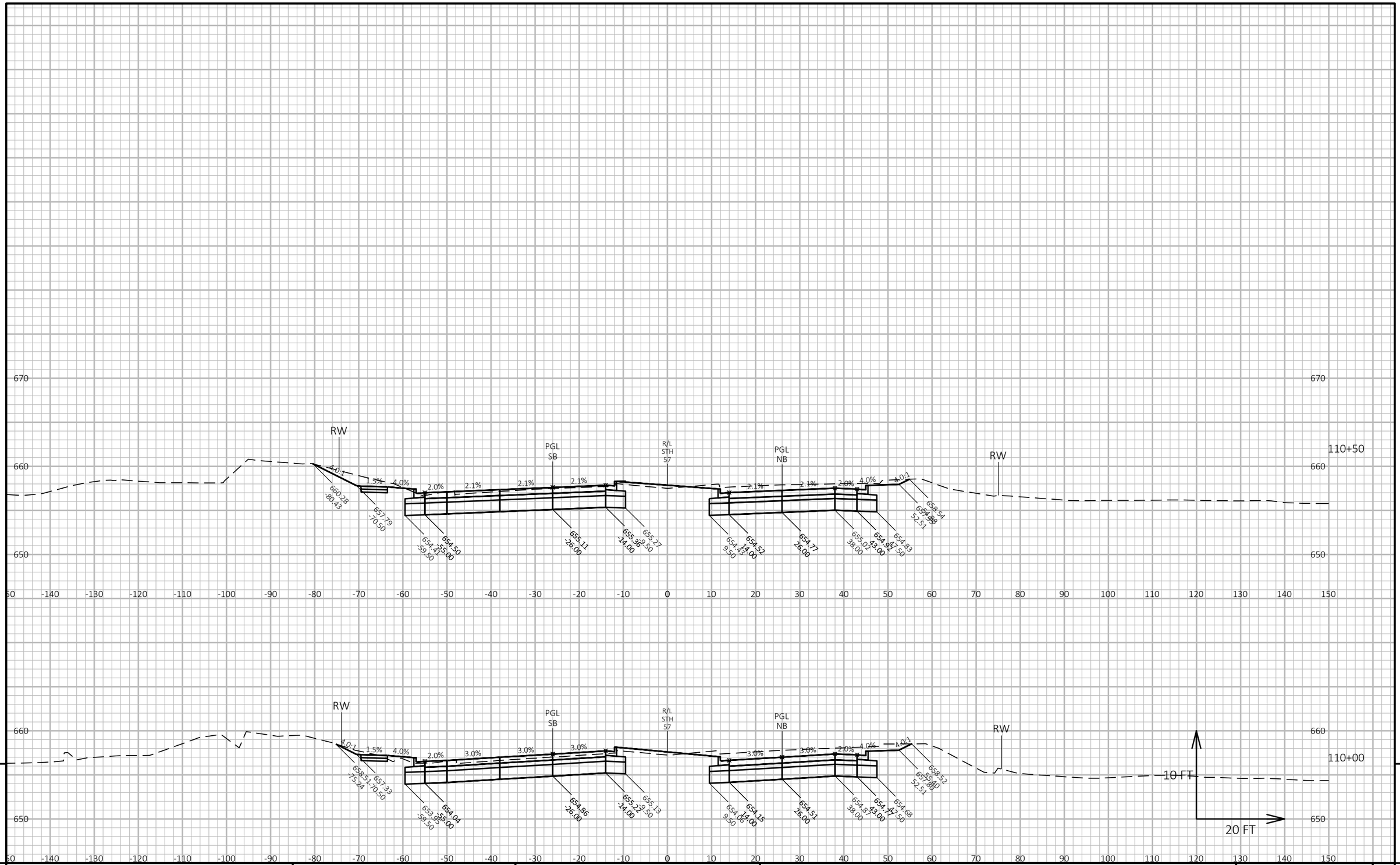
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FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090205

PLOT DATE : 3/31/2021 9:59 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



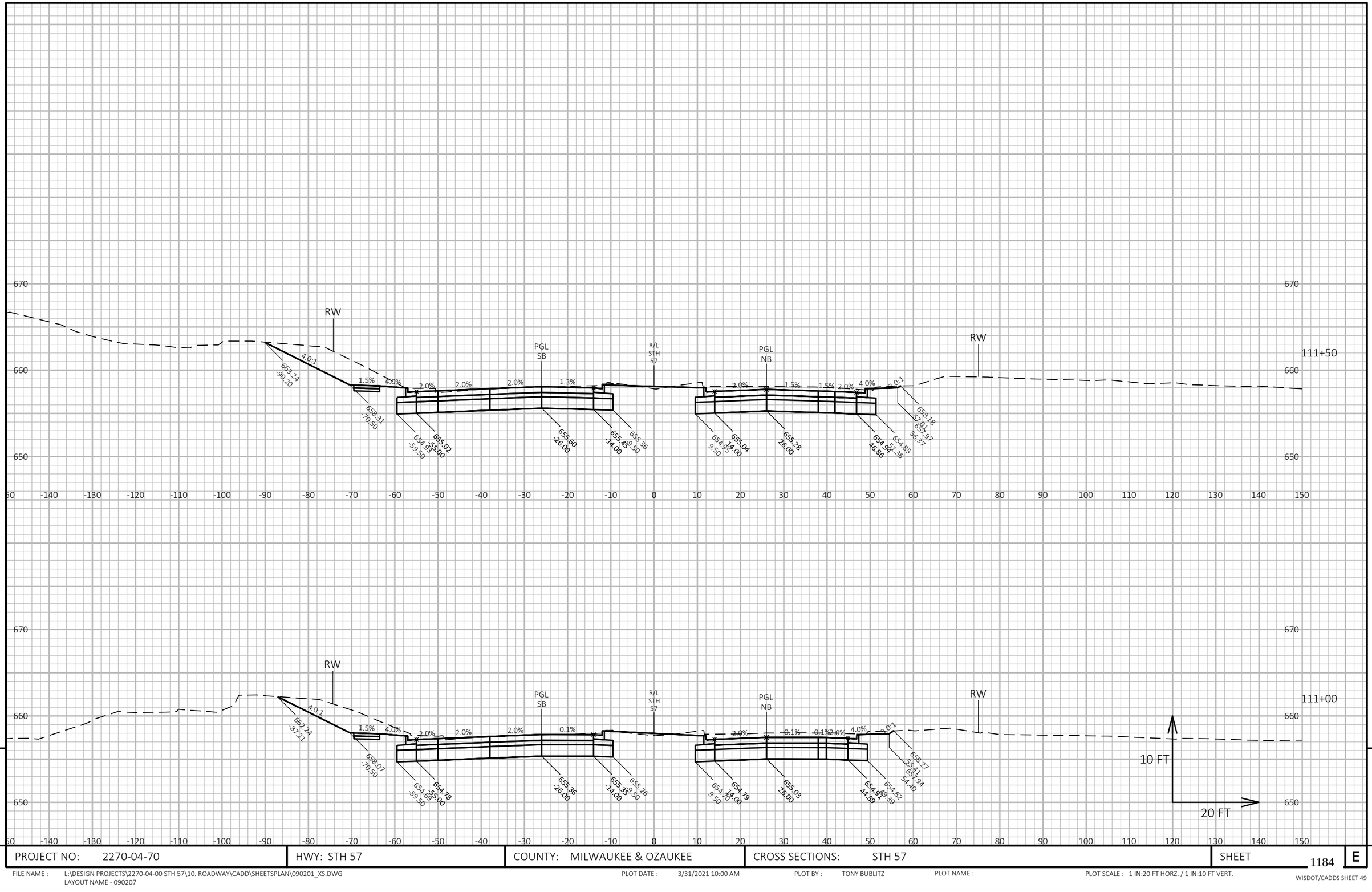
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PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CROSS SECTIONS: STH 57	SHEET 1183	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090206

PLOT DATE : 3/31/2021 9:59 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



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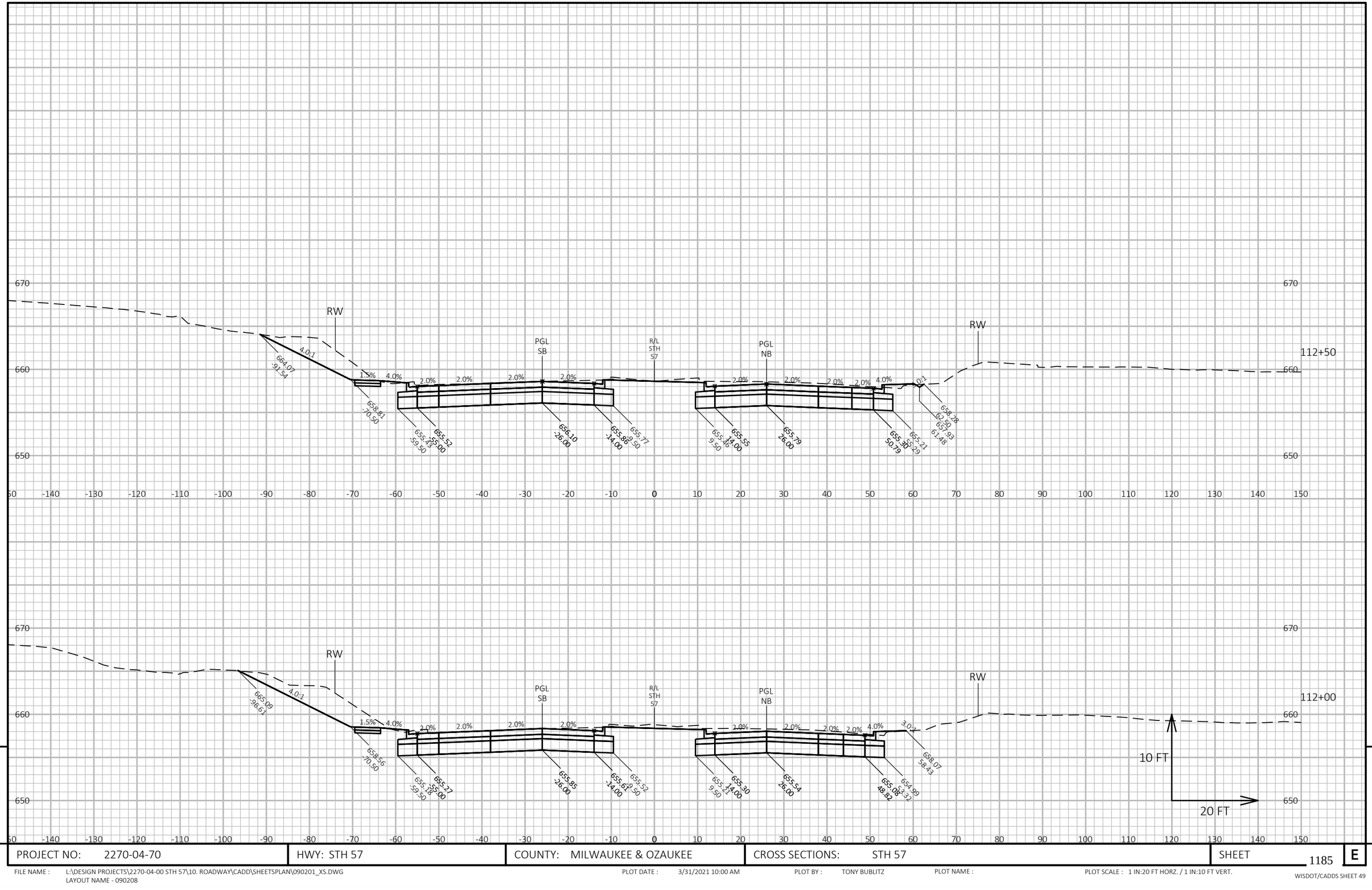
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PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CROSS SECTIONS: STH 57	SHEET 1184	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090207

PLOT DATE : 3/31/2021 10:00 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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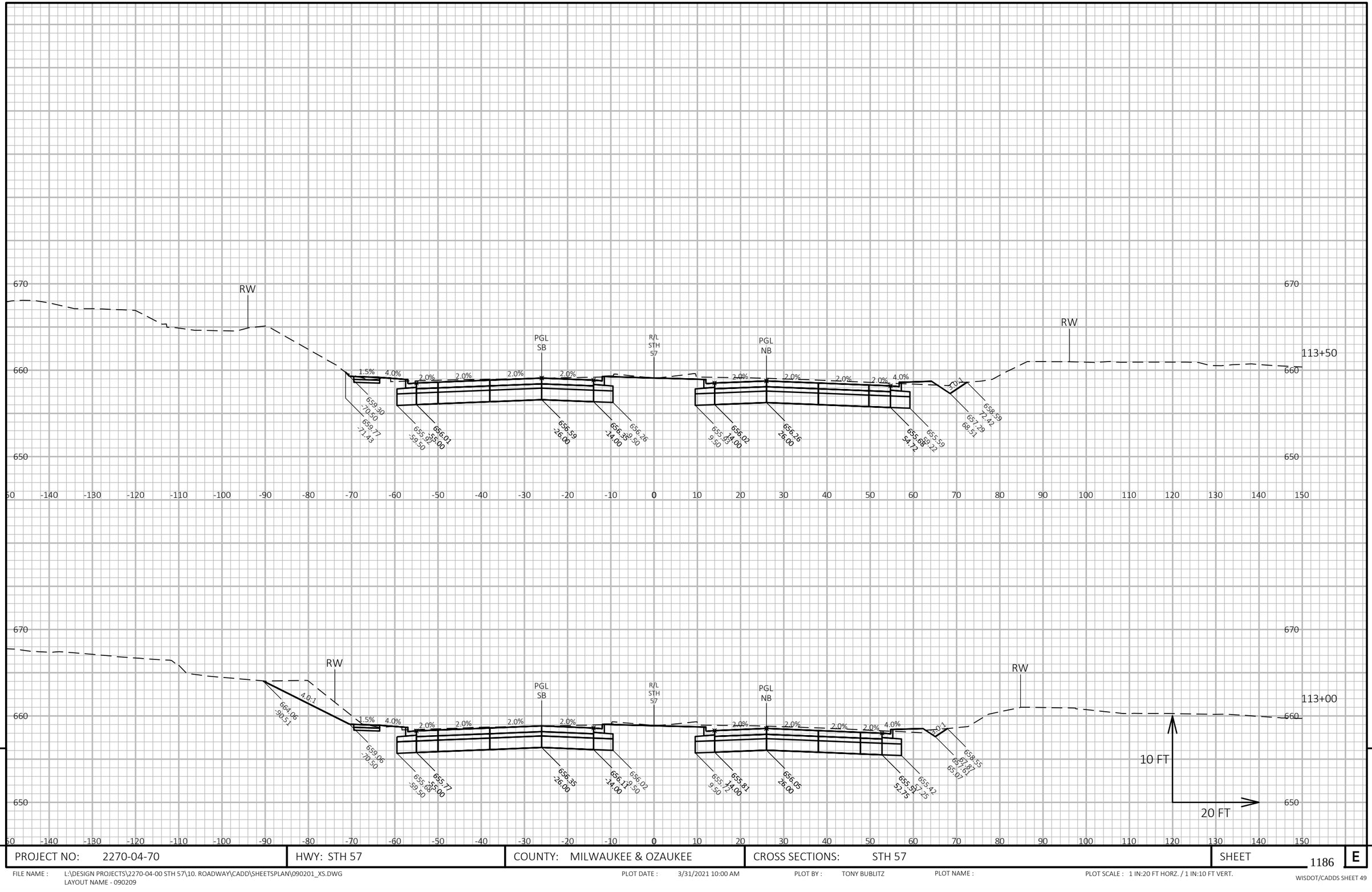
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FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090208

PLOT DATE : 3/31/2021 10:00 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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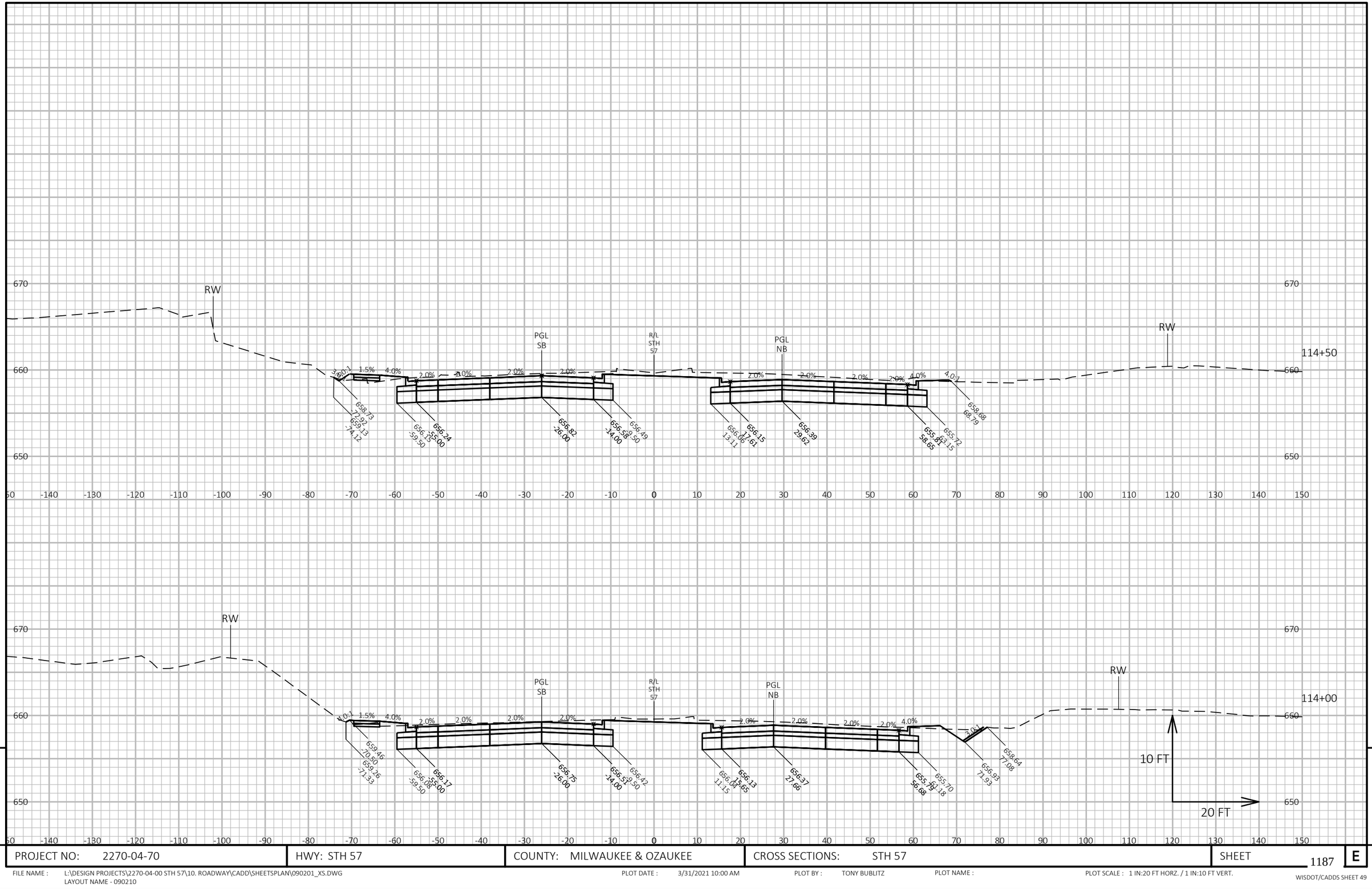
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FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090209

PLOT DATE : 3/31/2021 10:00 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



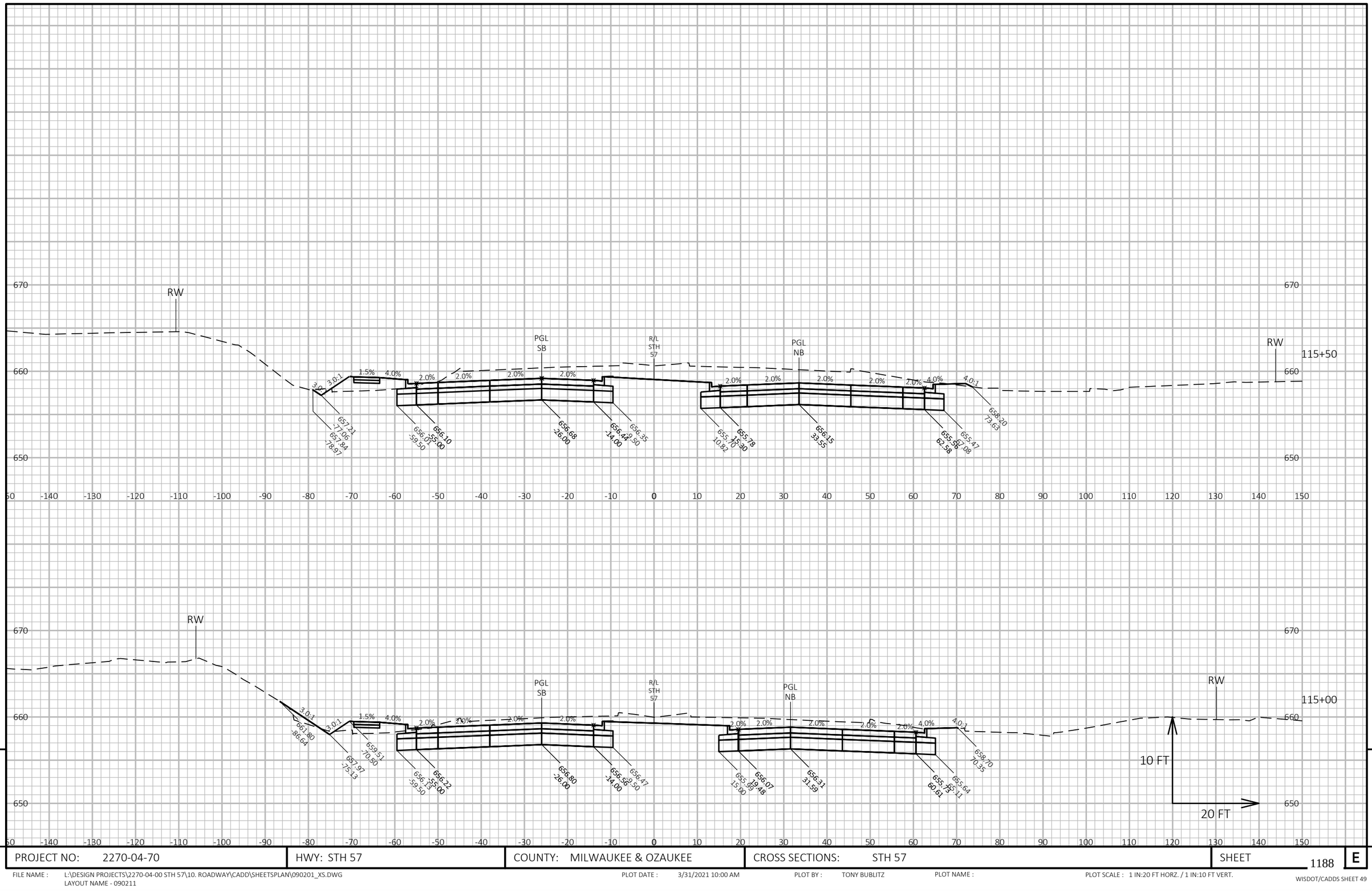
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PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CROSS SECTIONS: STH 57	SHEET 1187	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090210

PLOT DATE : 3/31/2021 10:00 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



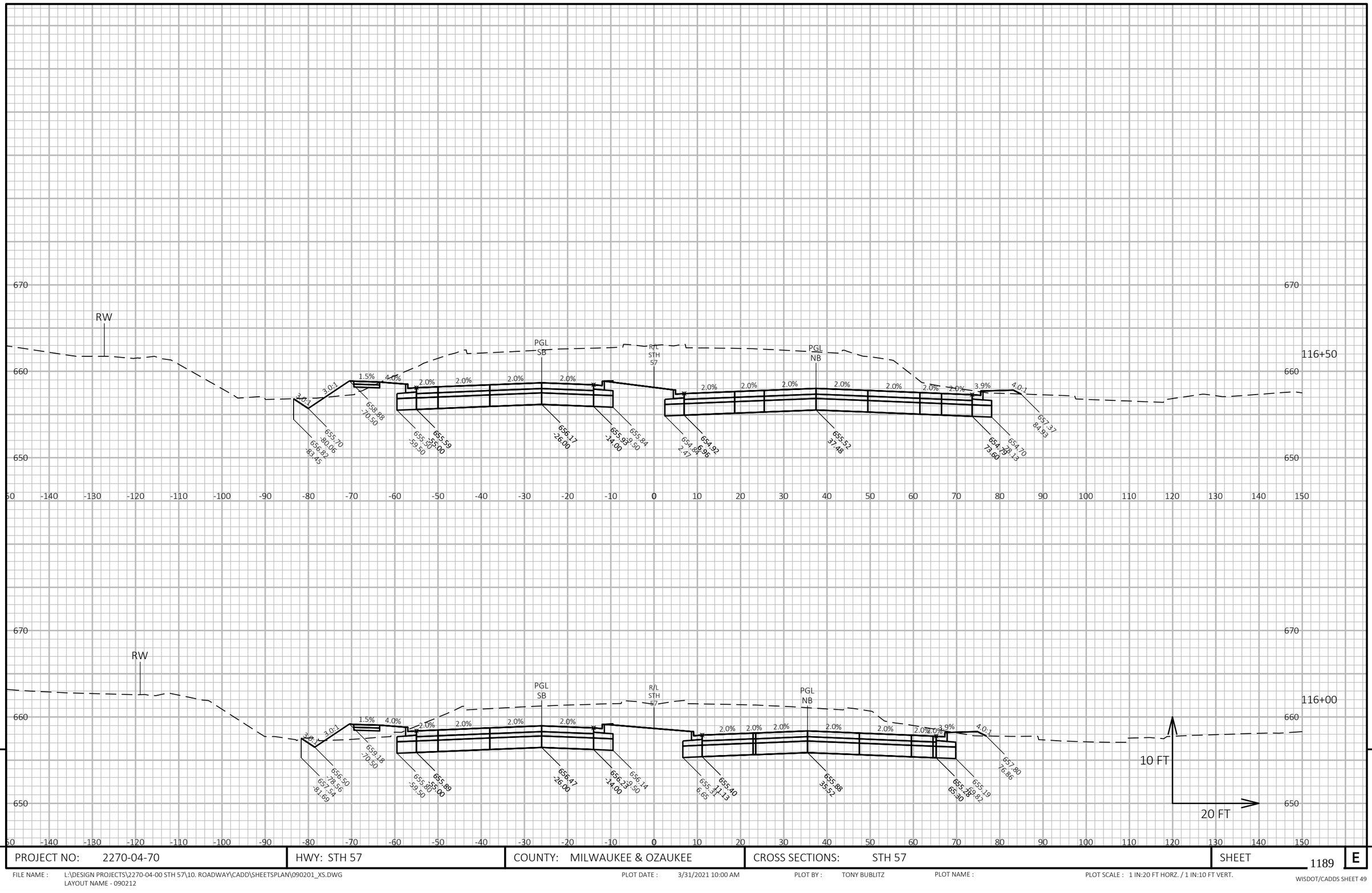
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PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CROSS SECTIONS: STH 57	SHEET 1188	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090211

PLOT DATE : 3/31/2021 10:00 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



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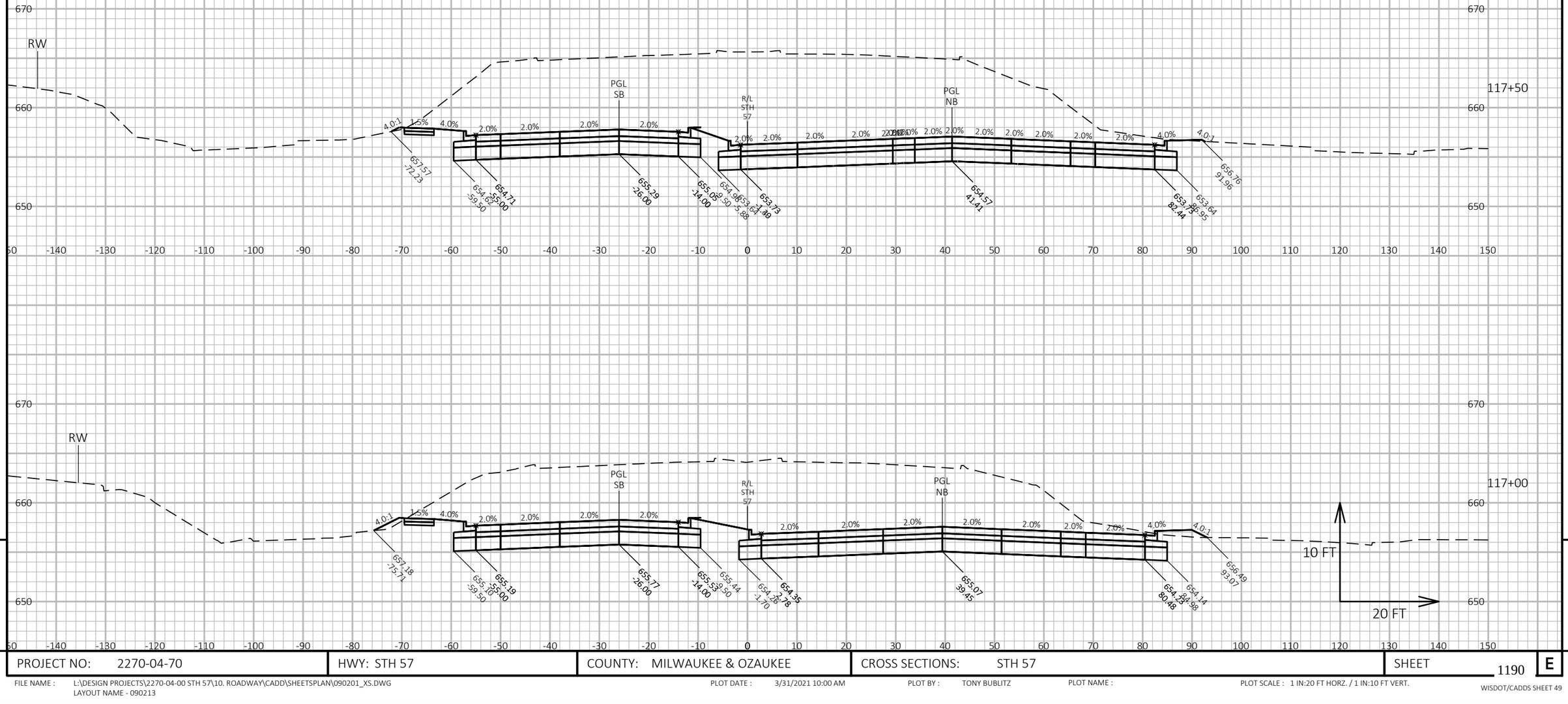
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PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CROSS SECTIONS: STH 57	SHEET 1189	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090212

PLOT DATE : 3/31/2021 10:00 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

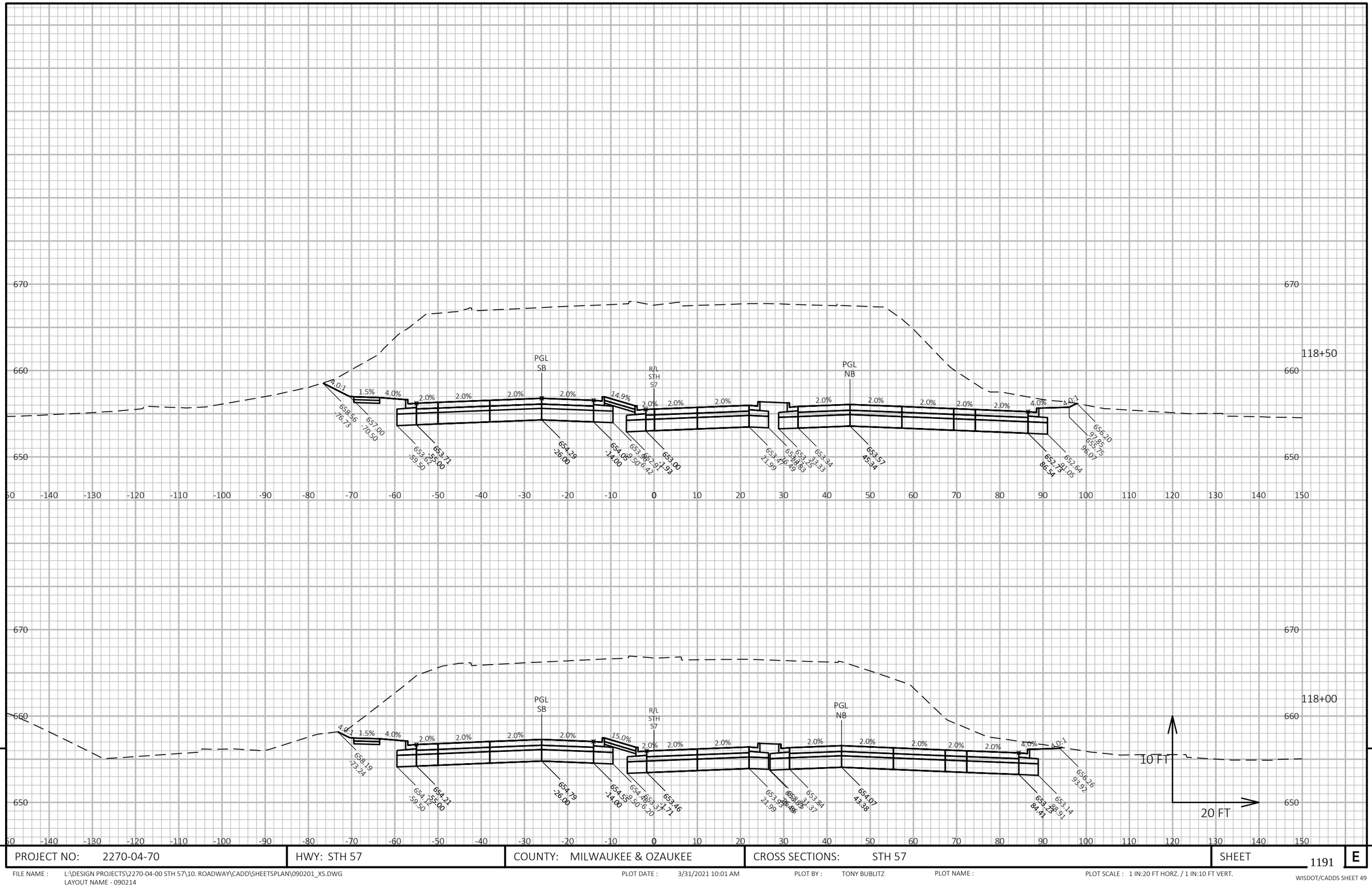


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PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CROSS SECTIONS: STH 57	SHEET 1190 E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090213

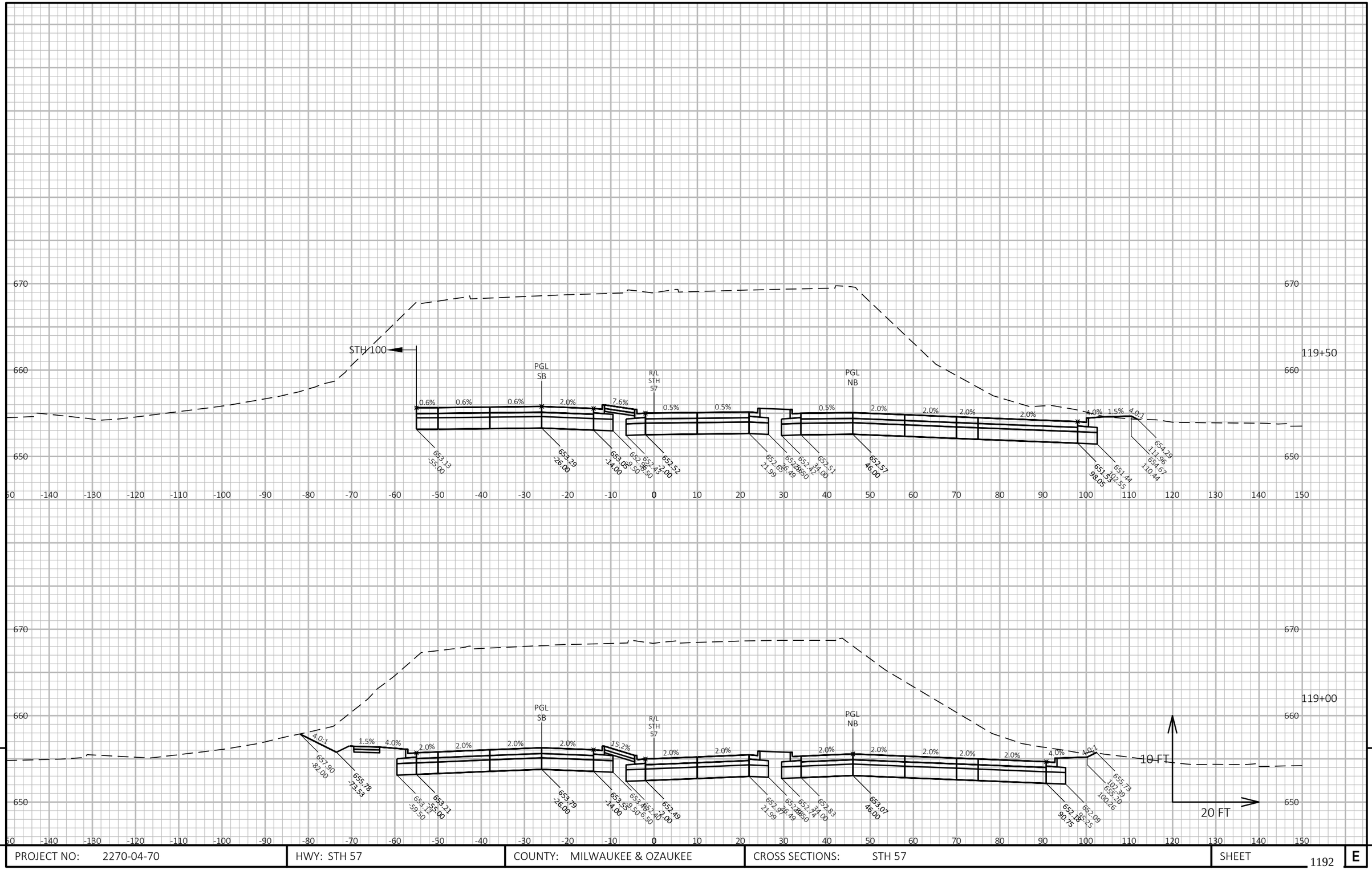
PLOT DATE : 3/31/2021 10:00 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CROSS SECTIONS: STH 57	SHEET 1191	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090214

PLOT DATE : 3/31/2021 10:01 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



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PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CROSS SECTIONS: STH 57	SHEET 1192 E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090215

PLOT DATE : 3/31/2021 10:01 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

121+00

STH 100

120+50

STH 100

120+00

STH 100

STH 100

STH 100

PGL SB

R/L STH 57

PGL NB

0.9% 0.9% 0.9% 1.1% 0.7% 1.0% 1.0% 1.0% 1.0% 1.0% 1.0% 4.0%

653.06 -55.00

652.79 -26.00

652.66 -14.00

652.57 -2.01

652.36 21.99

652.28 36.49

652.19 46.00

652.07 46.00

651.68 75.48

651.77 39.98

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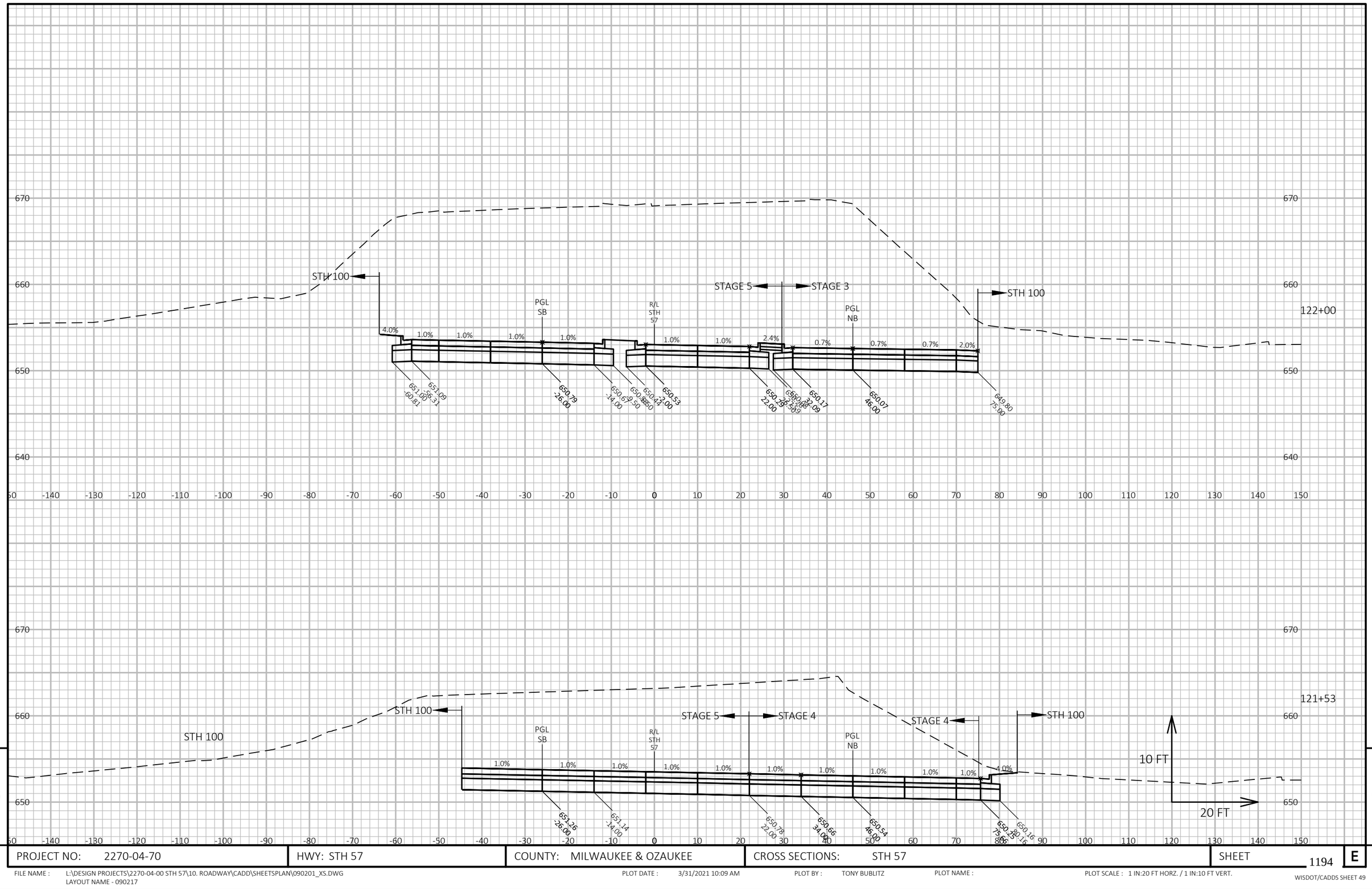
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PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CROSS SECTIONS: STH 57	SHEET 1193	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090216

PLOT DATE : 3/31/2021 10:01 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



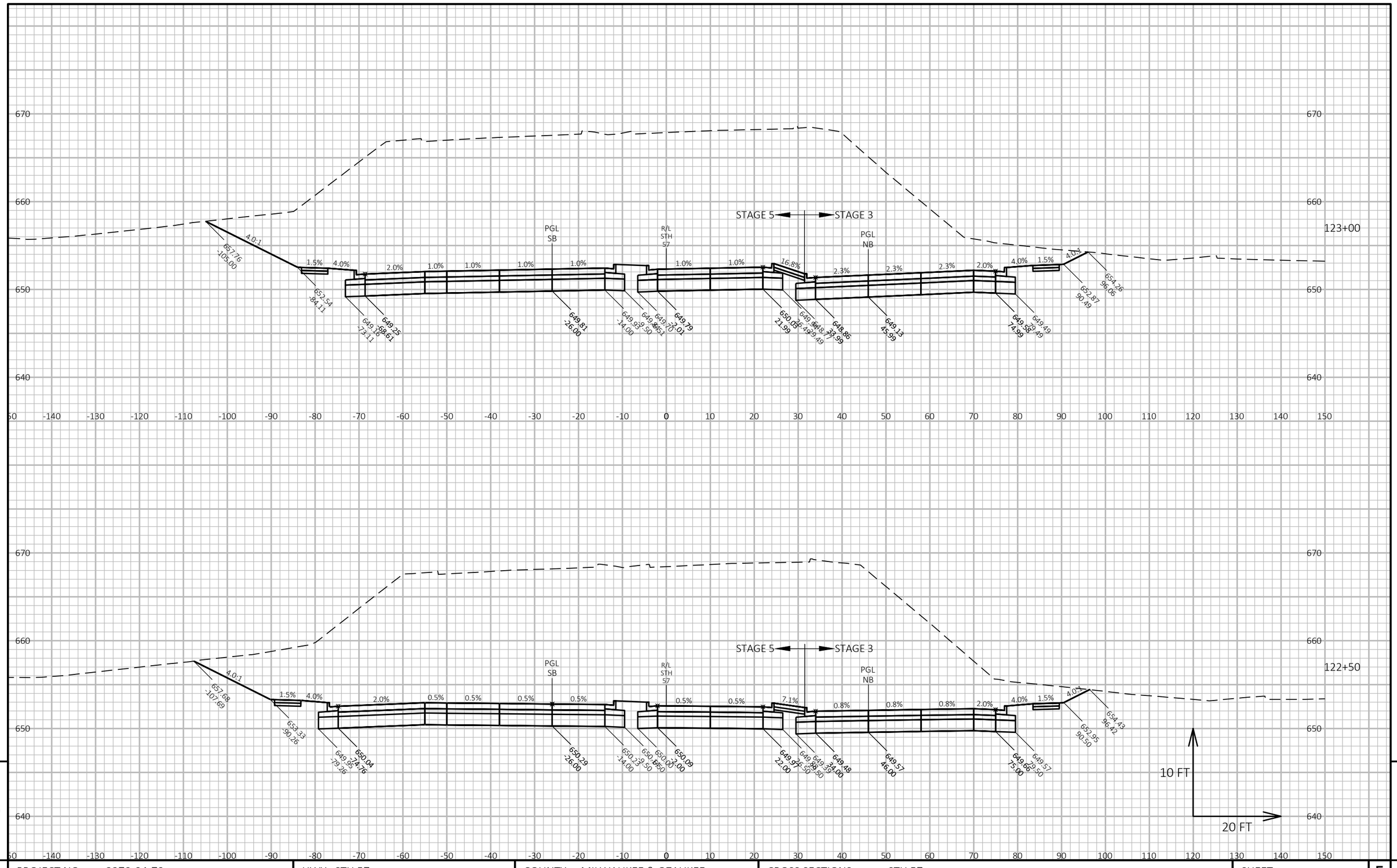
PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CROSS SECTIONS: STH 57	SHEET 1194 E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090217

PLOT DATE : 3/31/2021 10:09 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

9 9

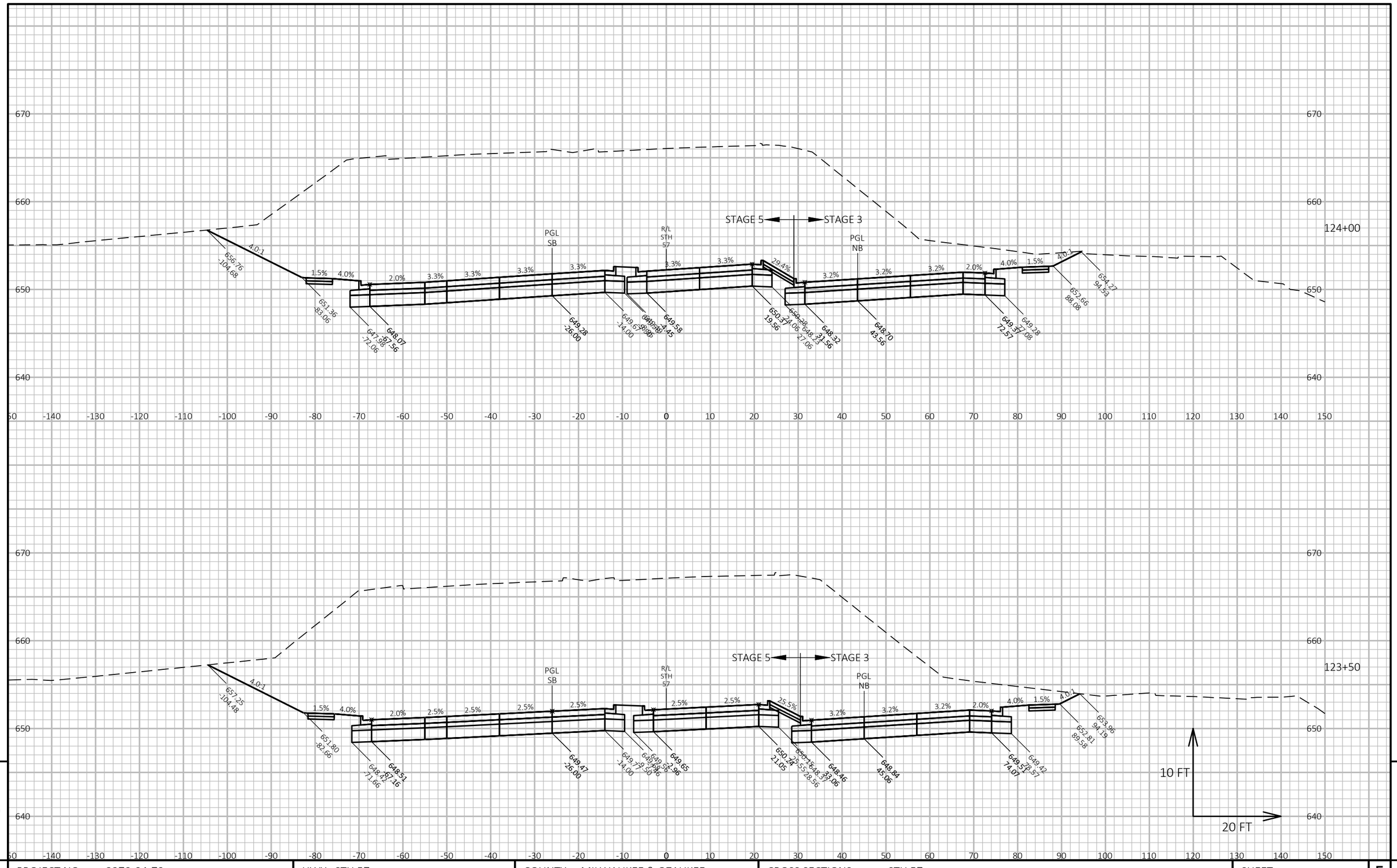


PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CROSS SECTIONS: STH 57	SHEET 1195 E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090218

PLOT DATE : 3/31/2021 10:10 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

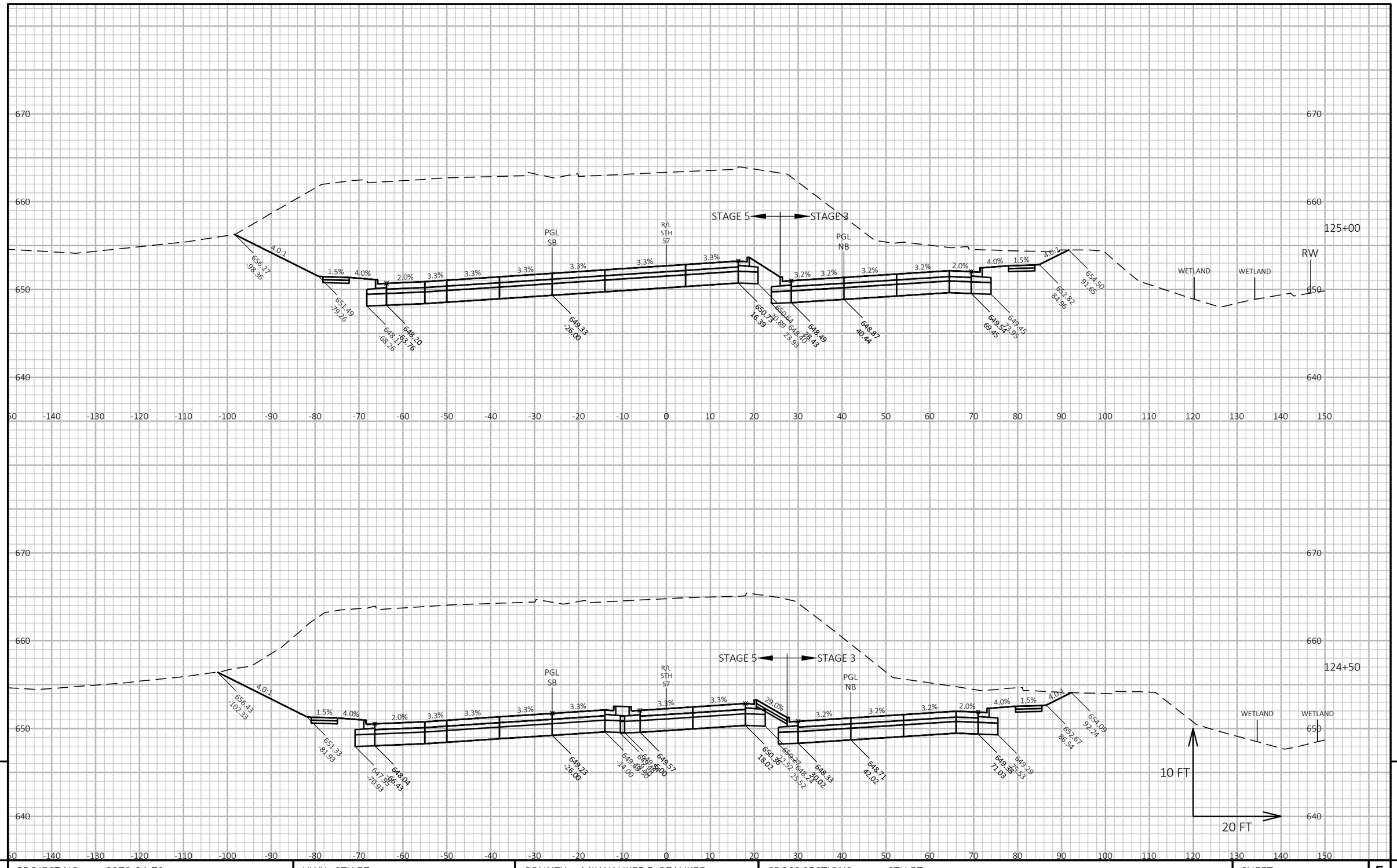


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PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CROSS SECTIONS: STH 57	SHEET 1196	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090219

PLOT DATE : 3/31/2021 10:11 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



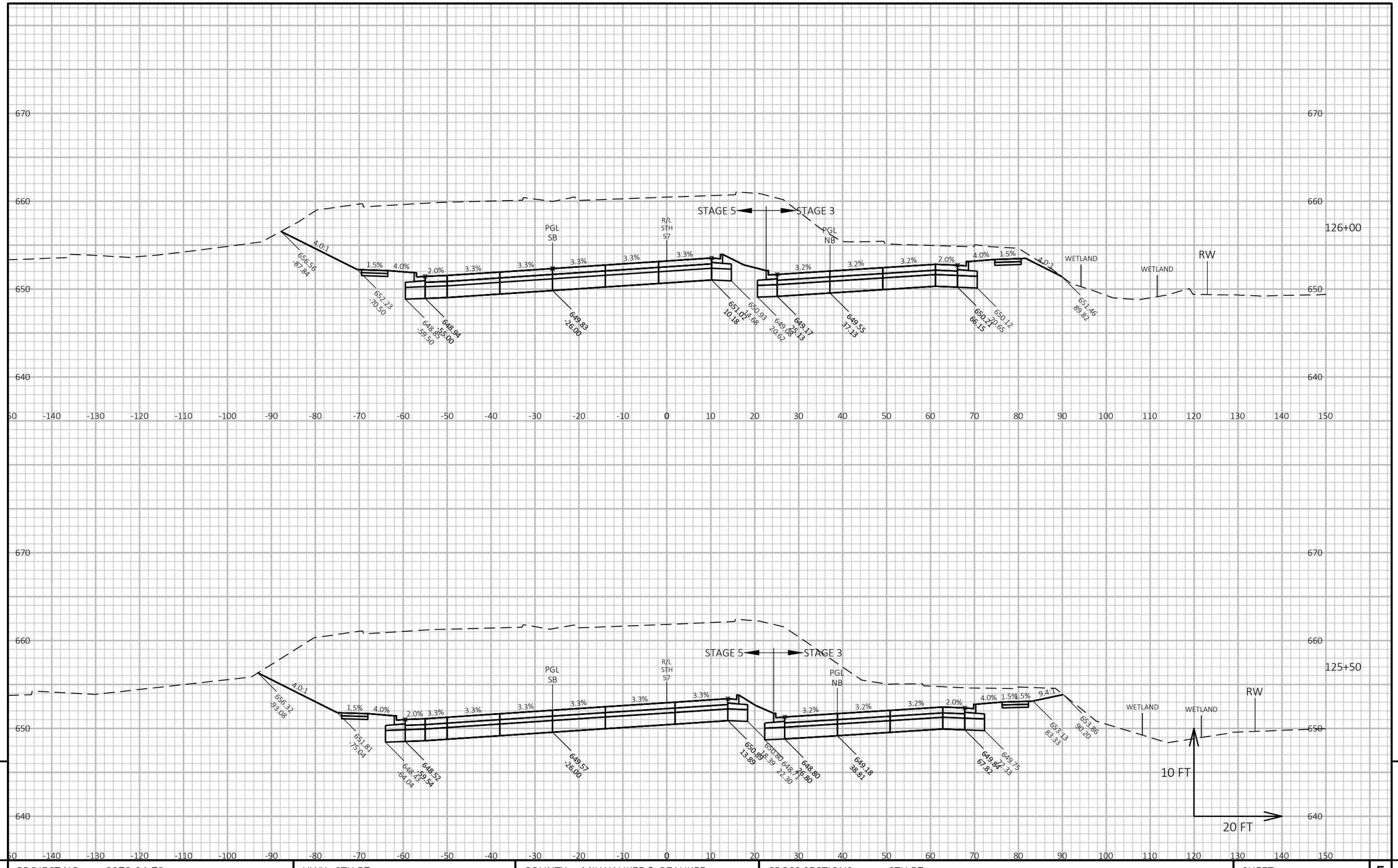
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PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CROSS SECTIONS: STH 57	SHEET 1197	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090220

PLOT DATE : 3/31/2021 10:01 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

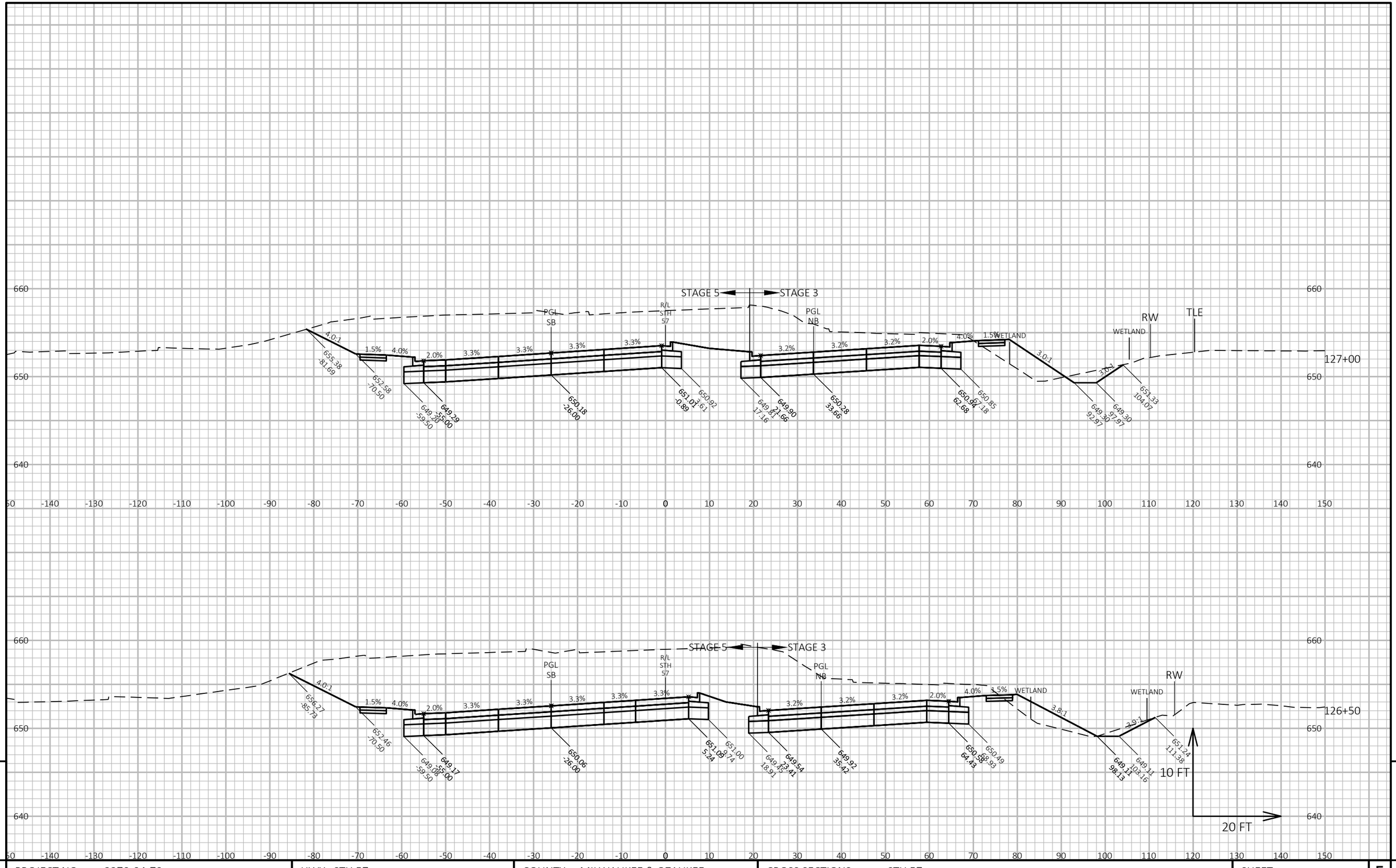


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PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CROSS SECTIONS: STH 57	SHEET 1198	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090221

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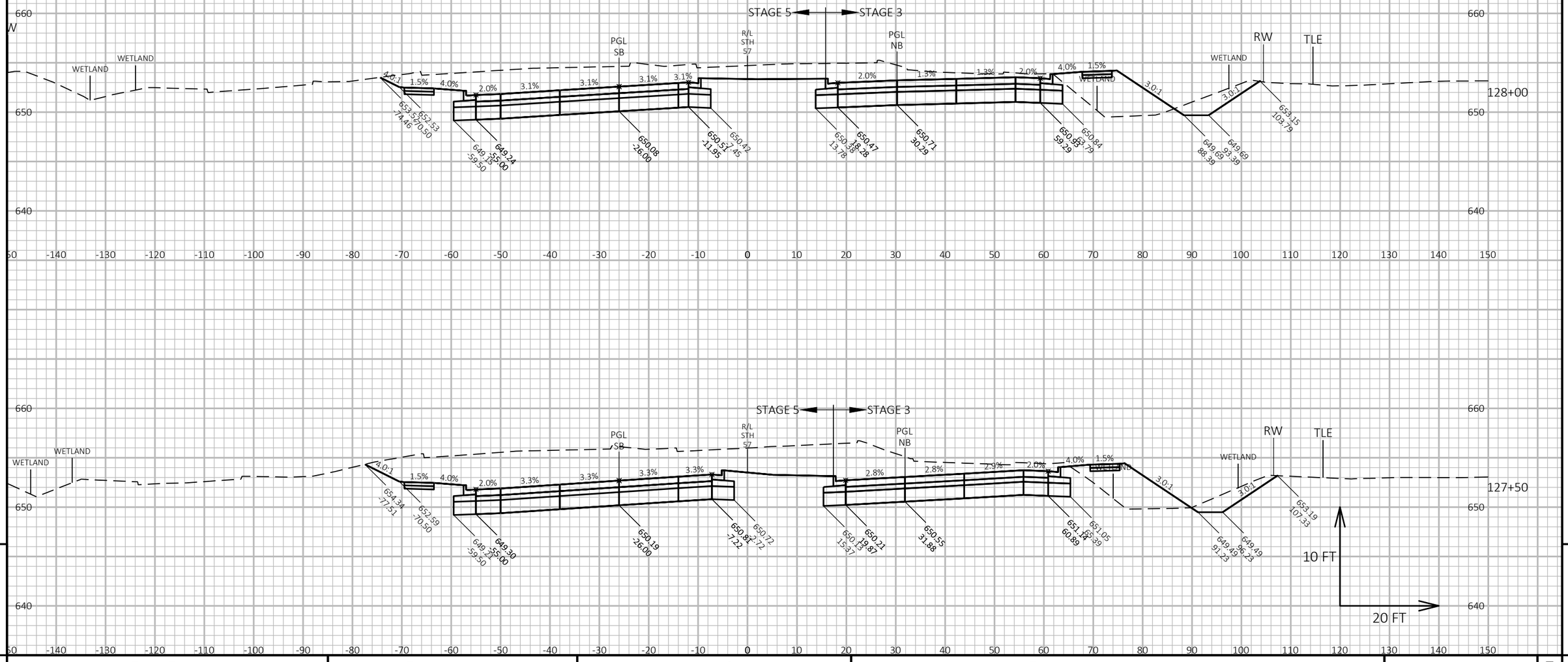
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PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CROSS SECTIONS: STH 57	SHEET 1199	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090222

PLOT DATE : 3/31/2021 10:02 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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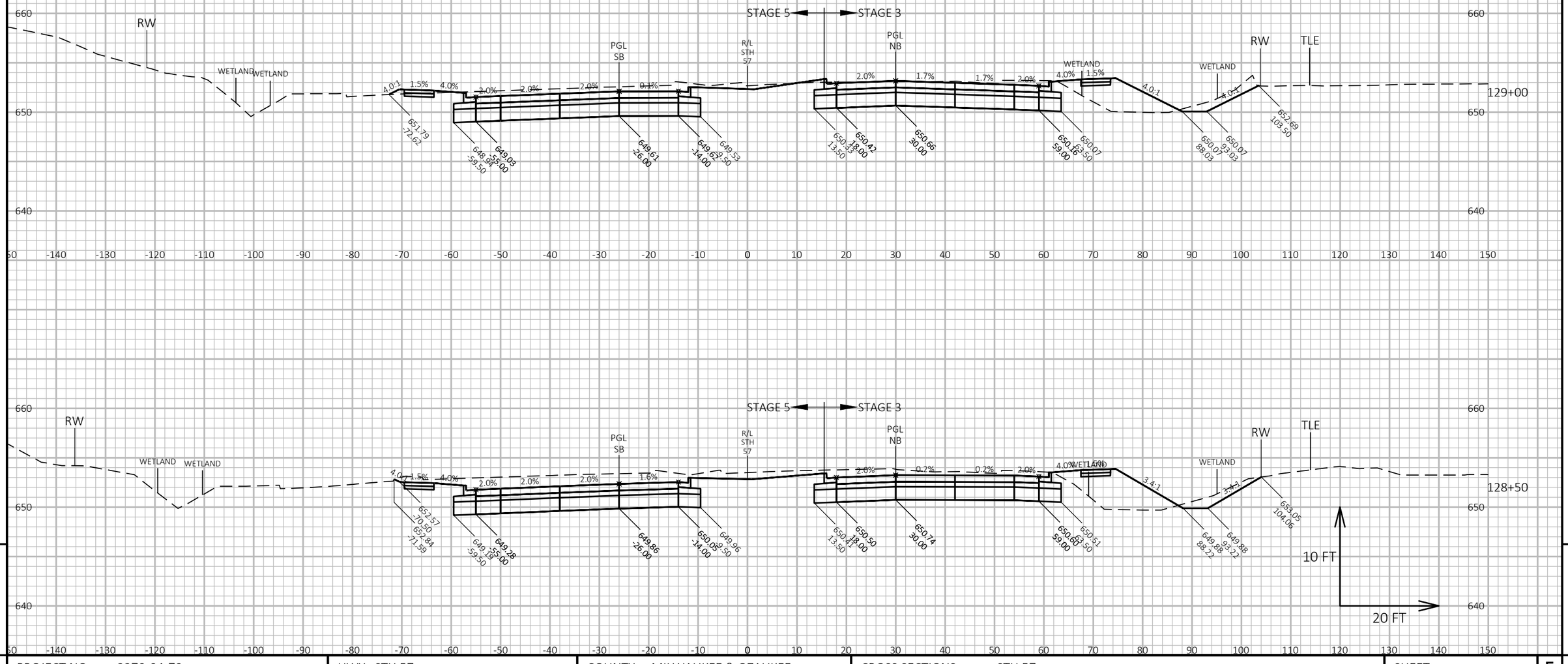
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FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090223

PLOT DATE : 3/31/2021 10:02 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

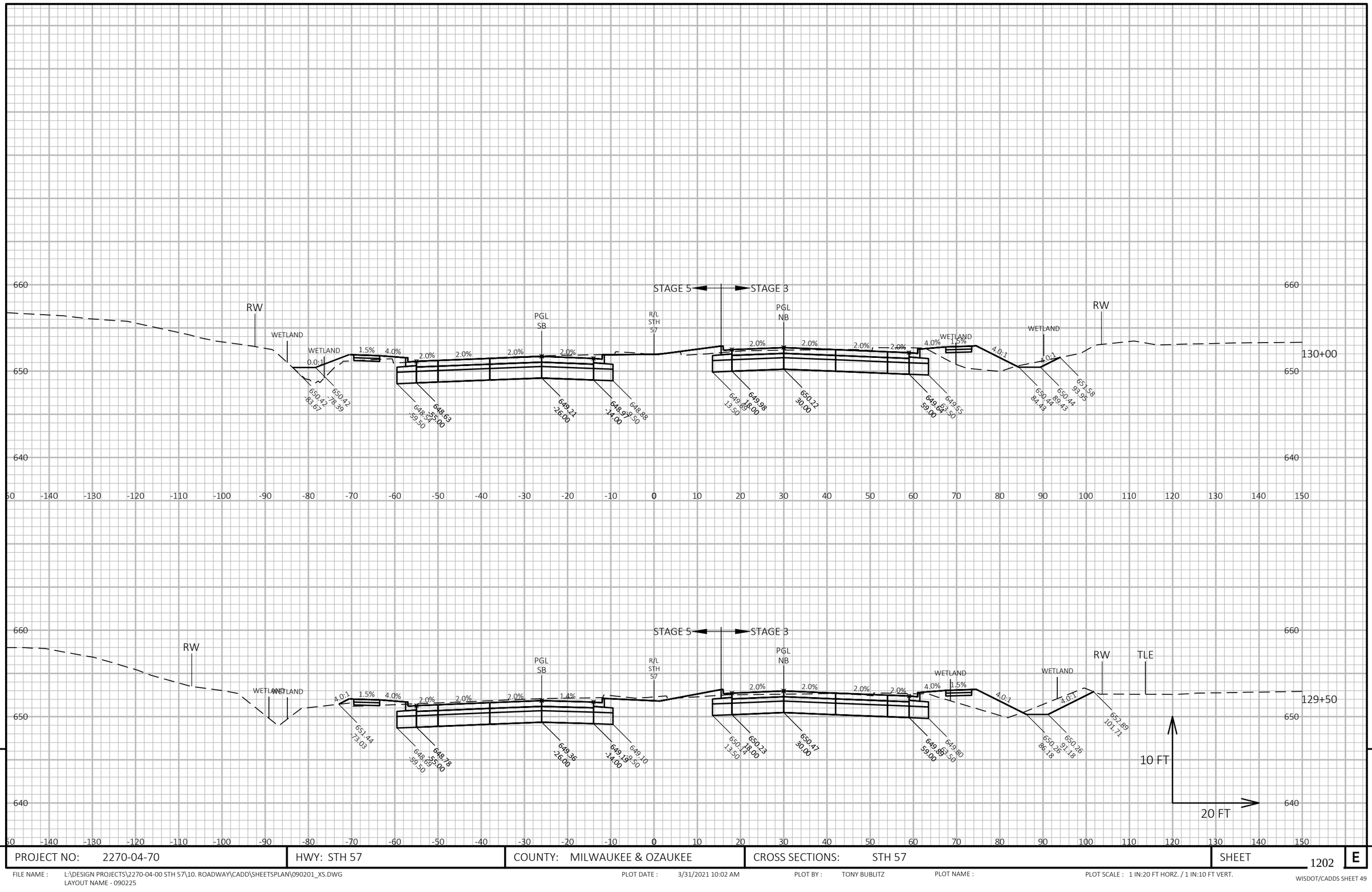


PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CROSS SECTIONS: STH 57	SHEET 1201	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090224

PLOT DATE : 3/31/2021 10:02 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

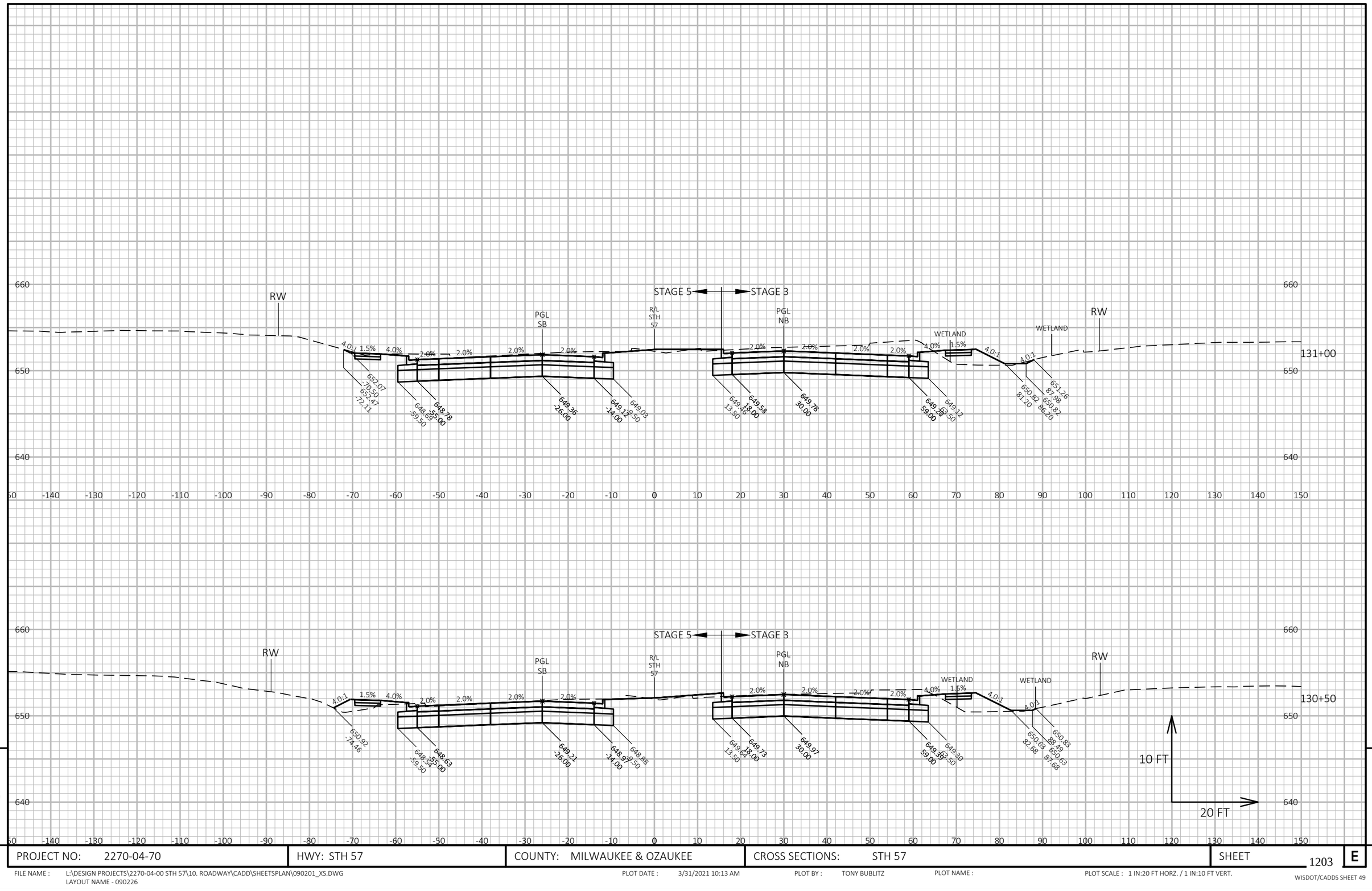
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PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CROSS SECTIONS: STH 57	SHEET 1202	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090225

PLOT DATE : 3/31/2021 10:02 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

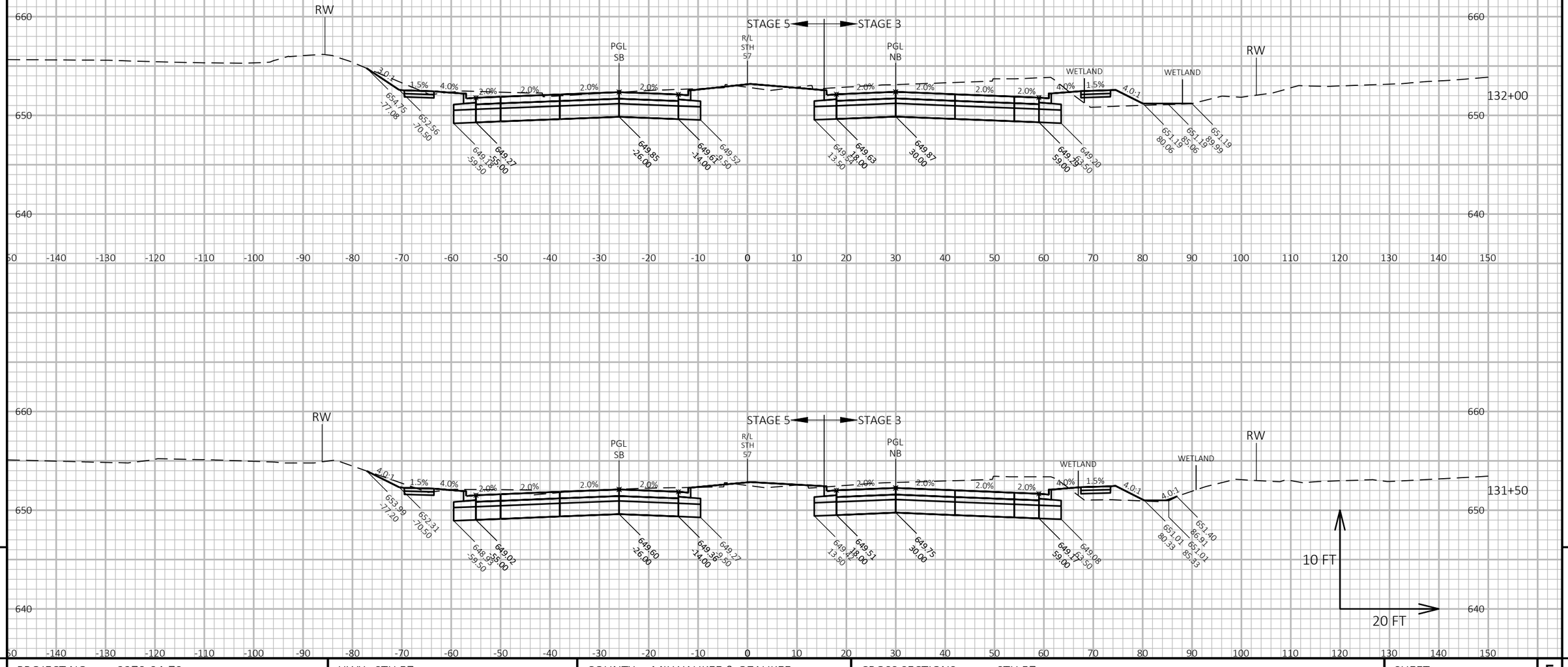


PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CROSS SECTIONS: STH 57	SHEET 1203	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090226

PLOT DATE : 3/31/2021 10:13 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

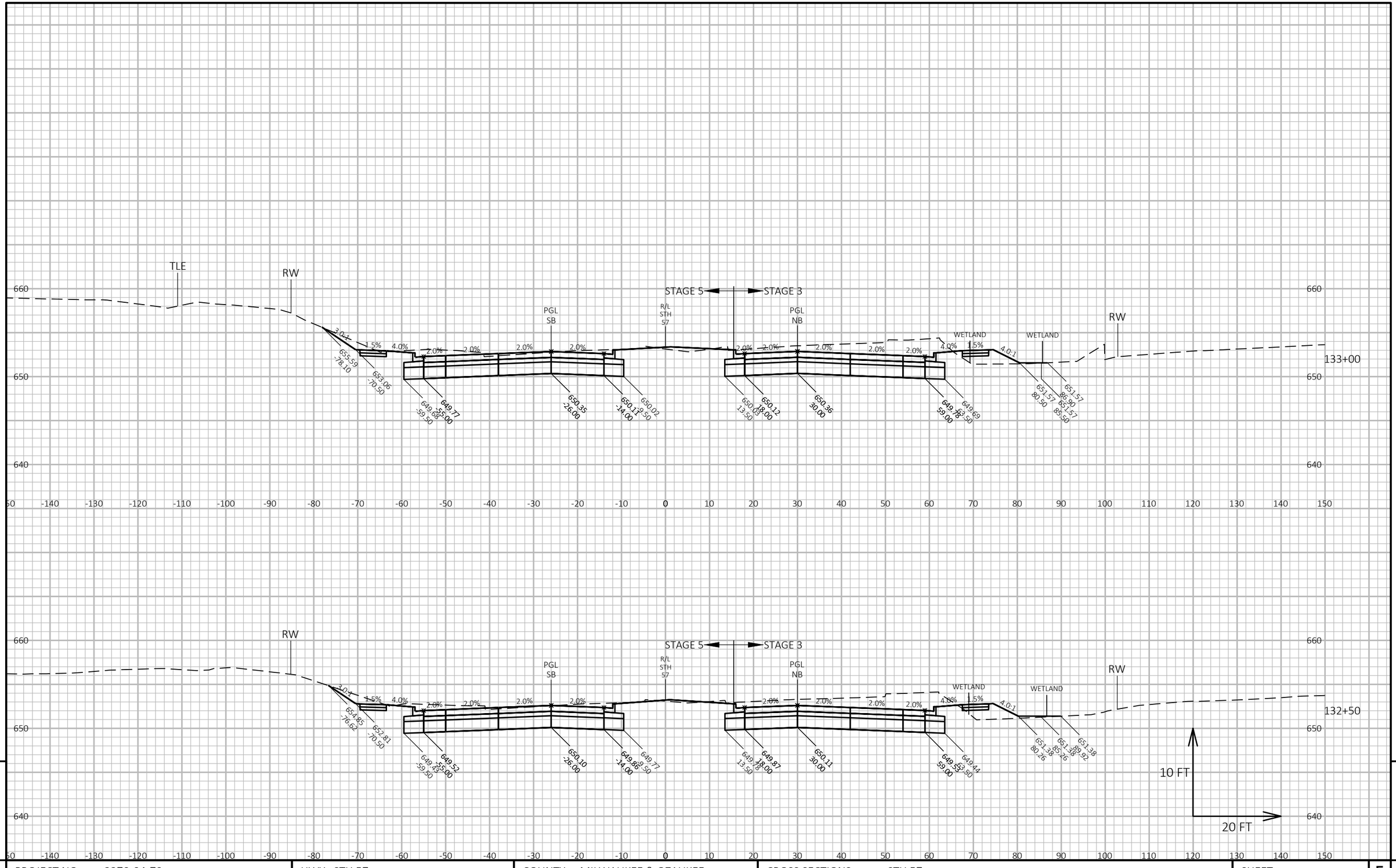


PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CROSS SECTIONS: STH 57	SHEET 1204 E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090227

PLOT DATE : 3/31/2021 10:15 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

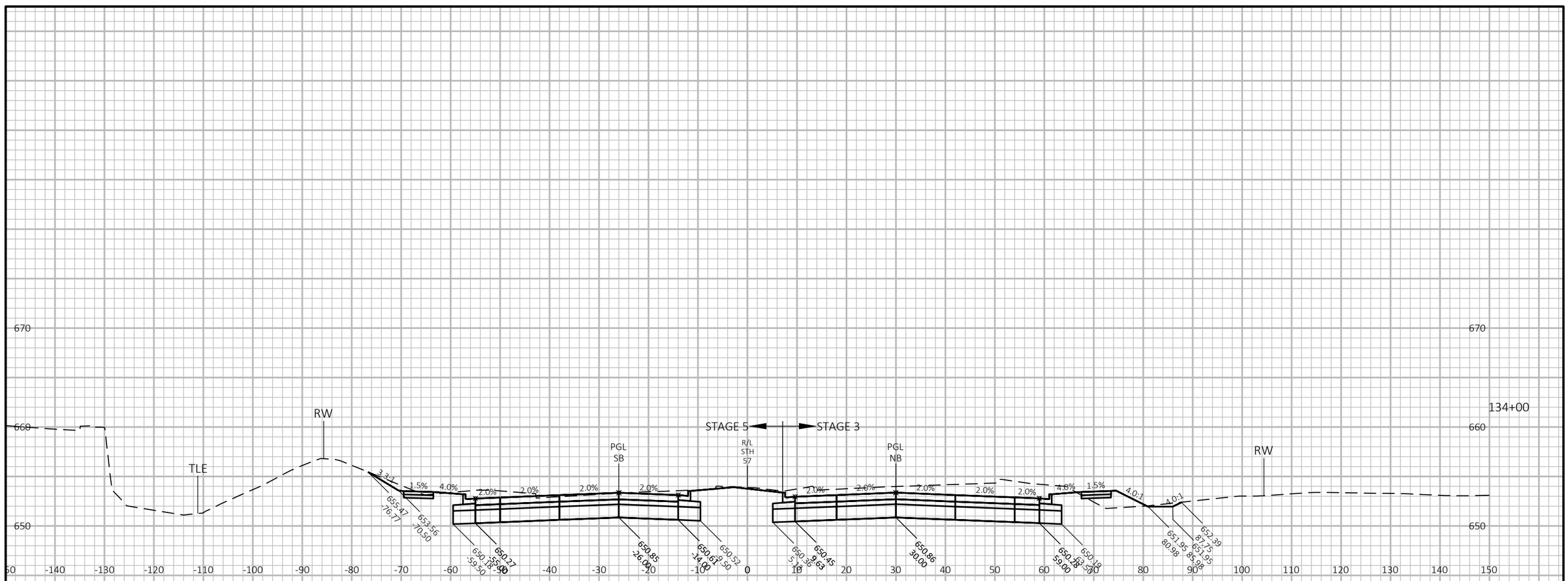


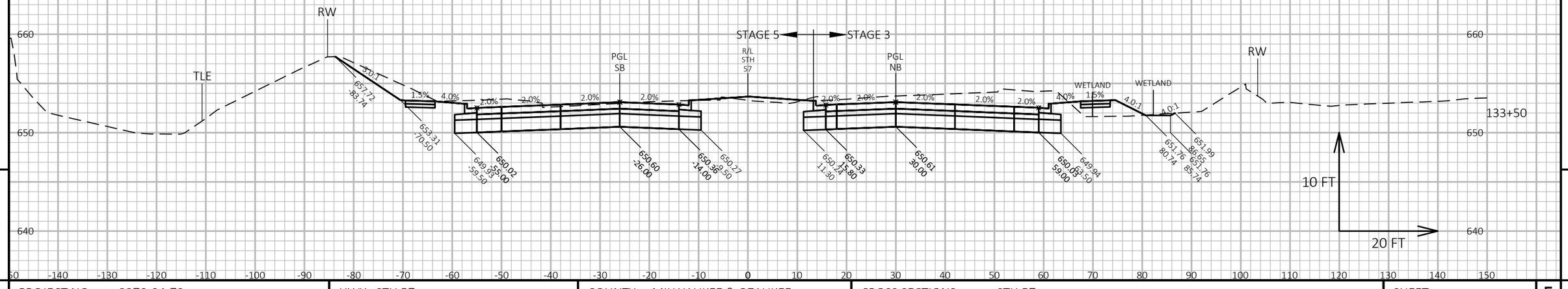
PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CROSS SECTIONS: STH 57	SHEET 1205 E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090228

PLOT DATE : 3/31/2021 10:32 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49





9

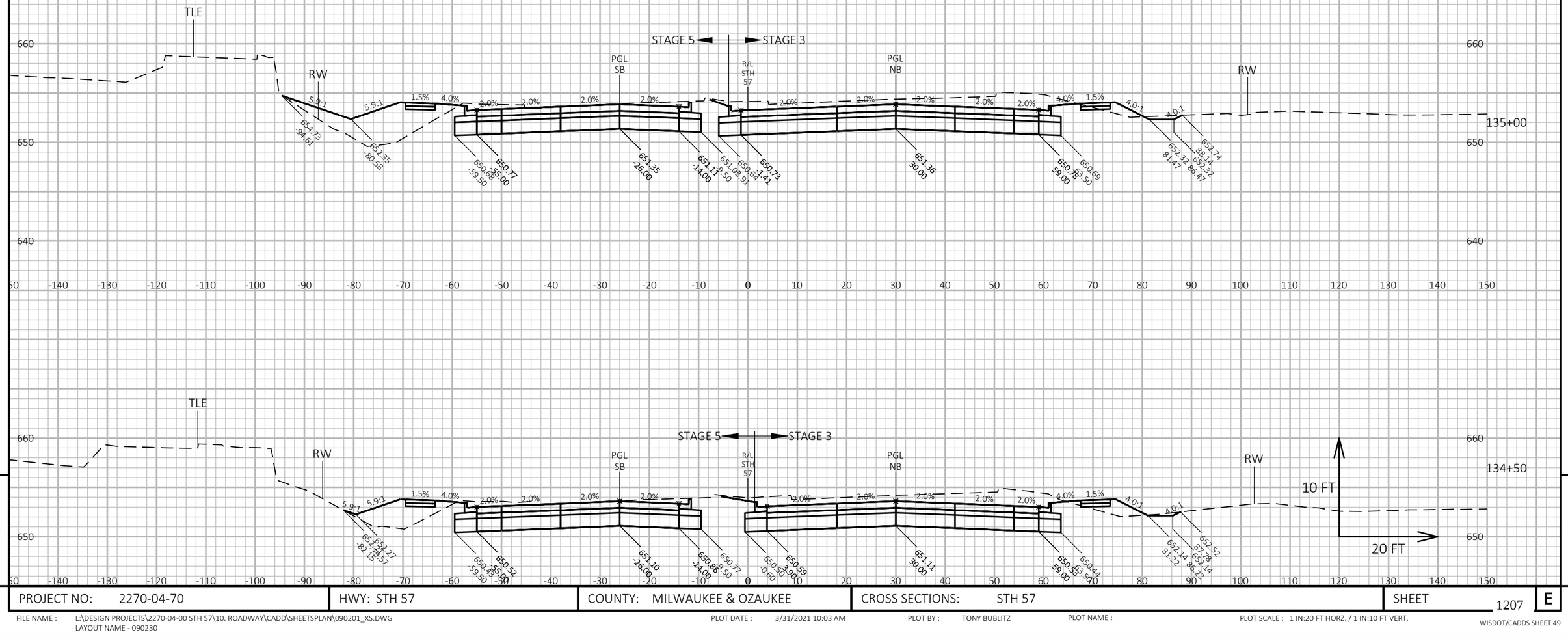
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PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CROSS SECTIONS: STH 57	SHEET 1206	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090229

PLOT DATE : 3/31/2021 10:02 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



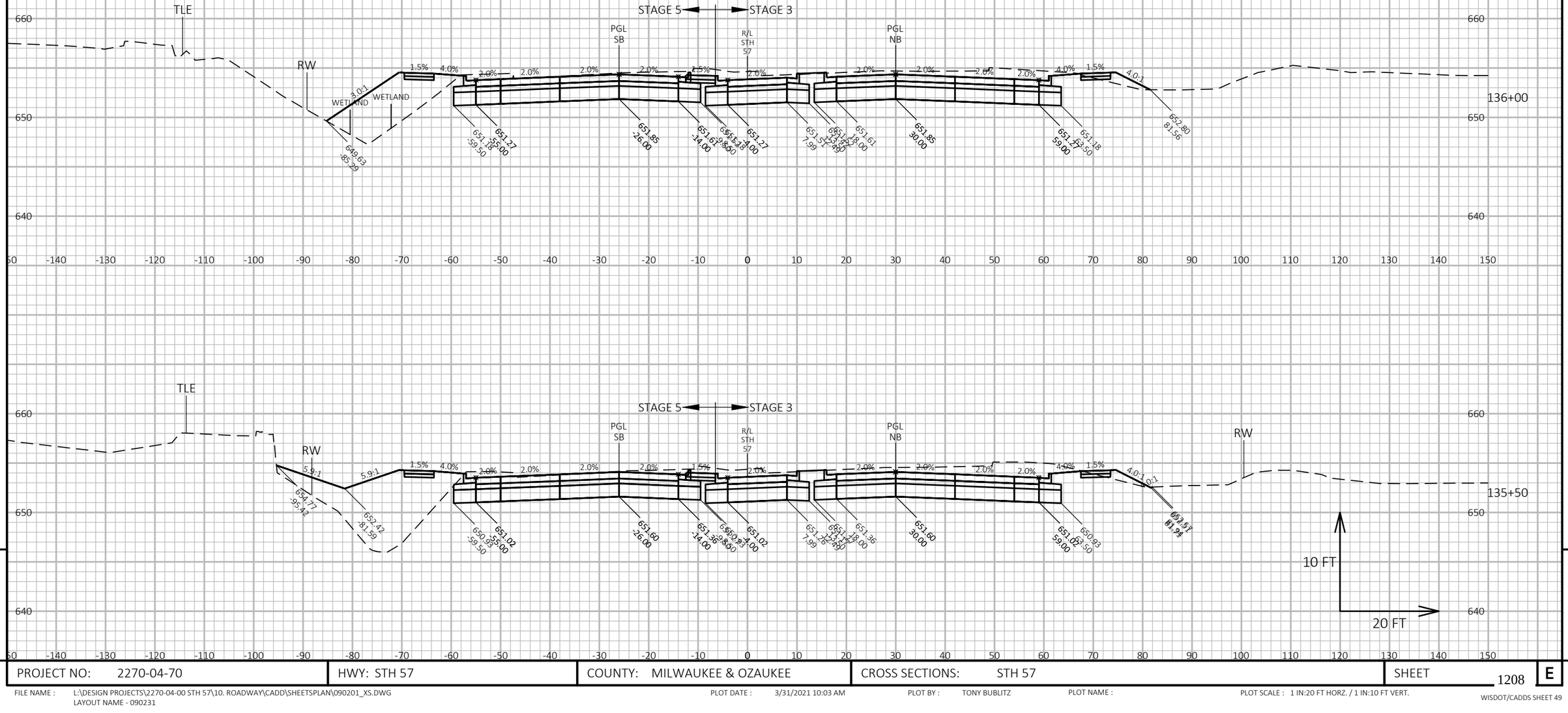
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PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CROSS SECTIONS: STH 57	SHEET 1207	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090230

PLOT DATE : 3/31/2021 10:03 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

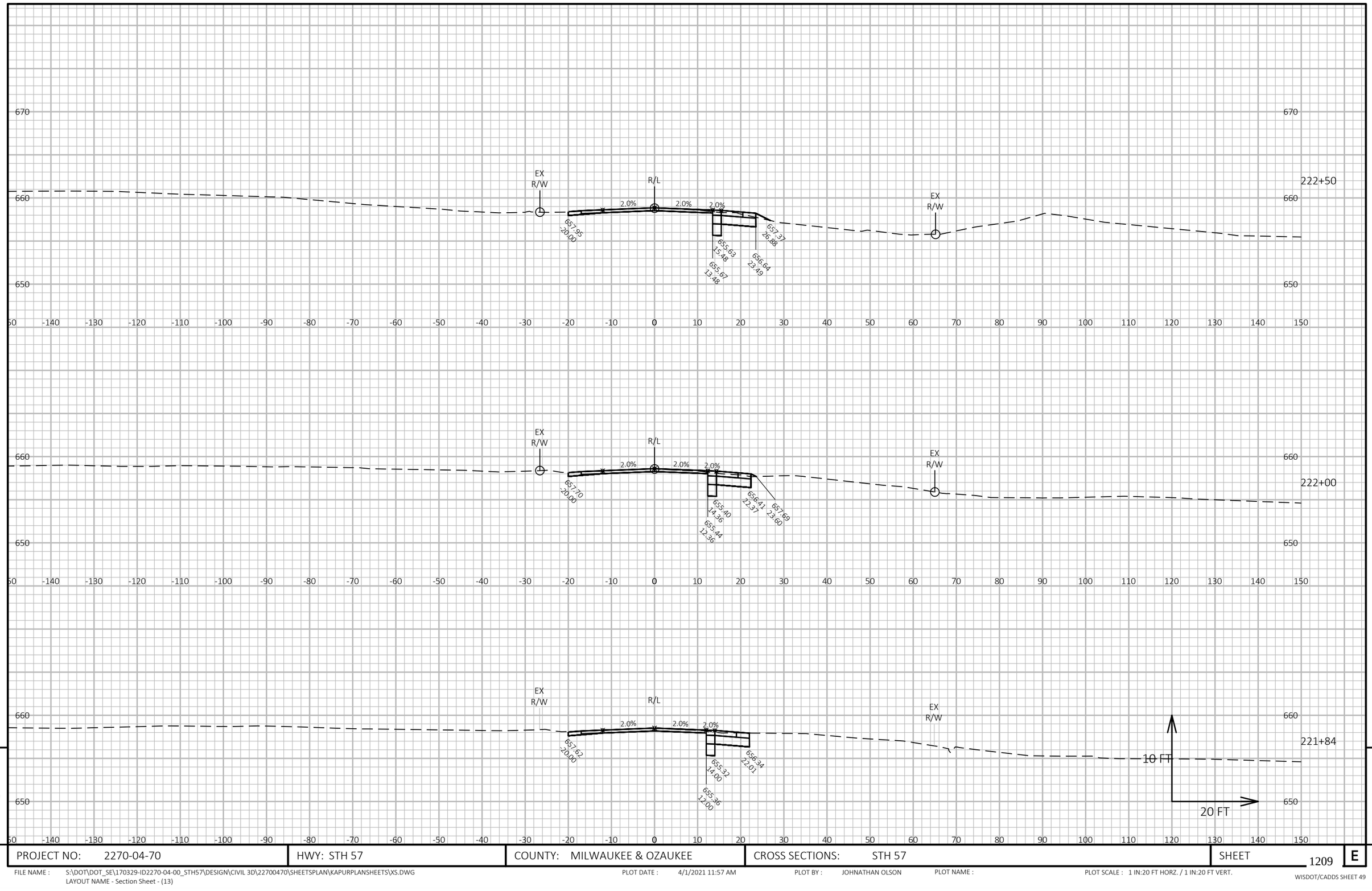


PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CROSS SECTIONS: STH 57	SHEET 1208 E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090231

PLOT DATE : 3/31/2021 10:03 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

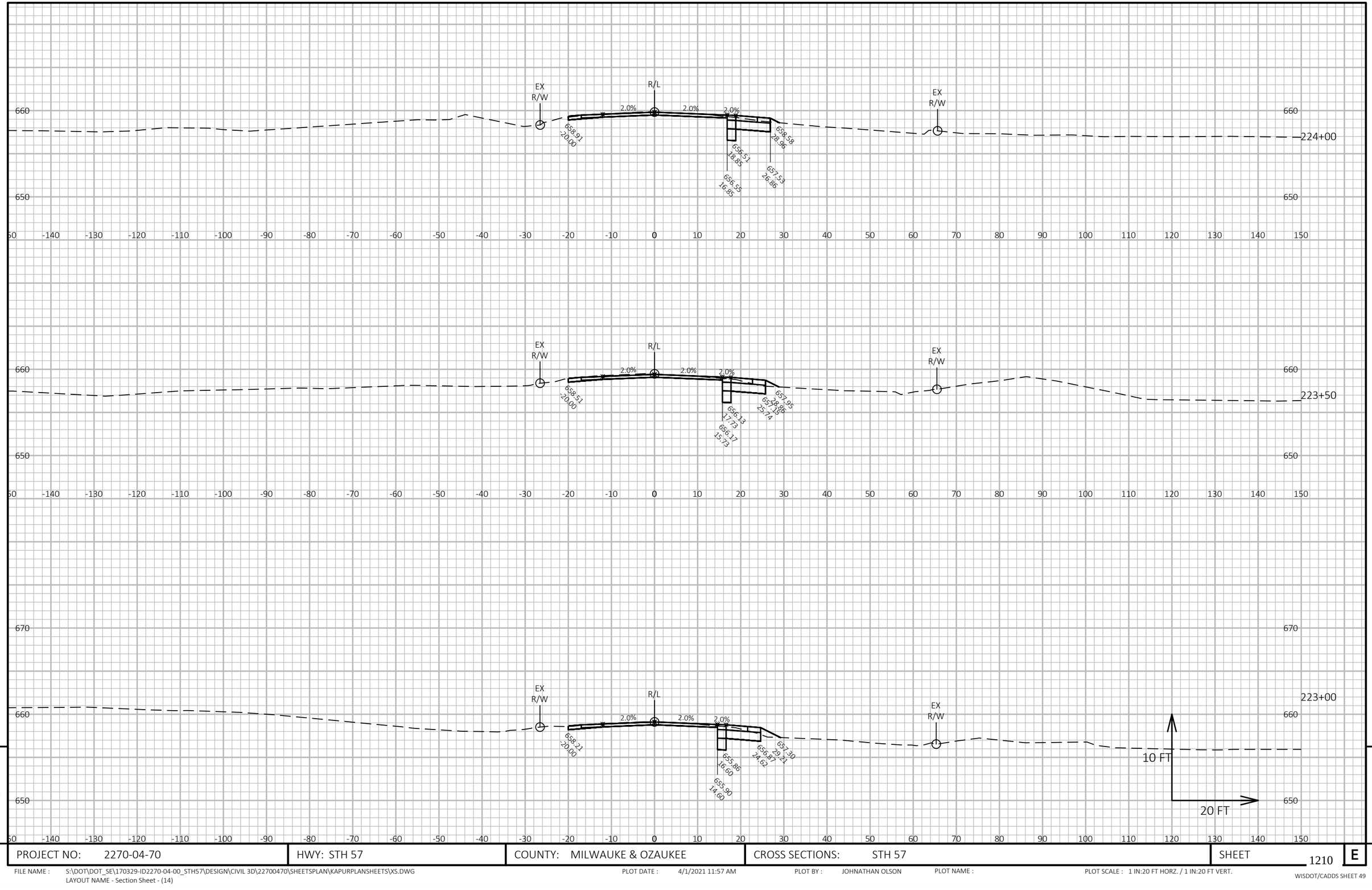
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PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CROSS SECTIONS: STH 57	SHEET 1209	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\XS.DWG
LAYOUT NAME - Section Sheet - (13)

PLOT DATE : 4/1/2021 11:57 AM PLOT BY : JOHNATHAN OLSON PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



9

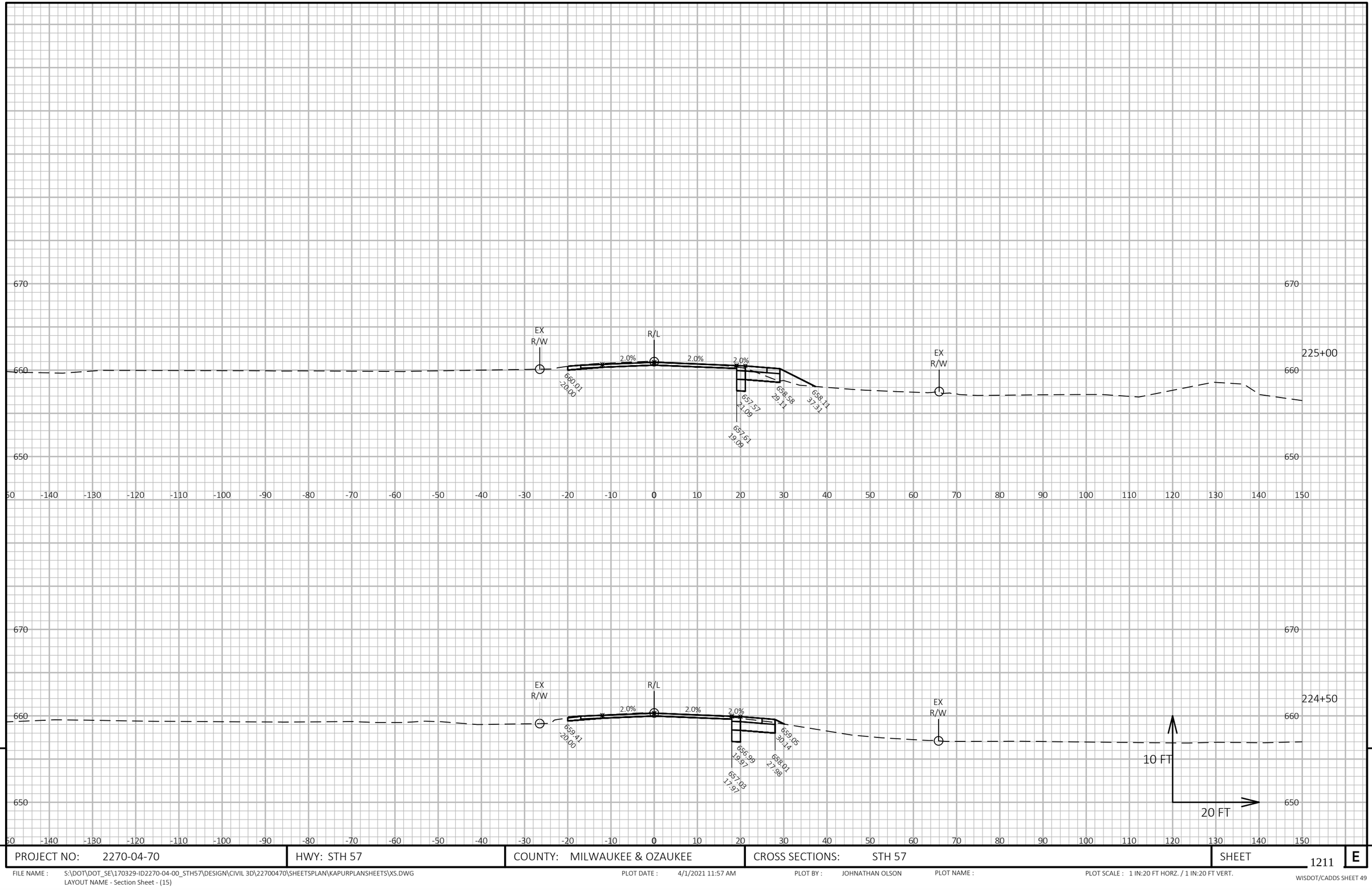
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PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKE & OZAUKEE	CROSS SECTIONS: STH 57	SHEET 1210	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\XS.DWG
LAYOUT NAME - Section Sheet - (14)

PLOT DATE : 4/1/2021 11:57 AM PLOT BY : JOHNATHAN OLSON PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



9

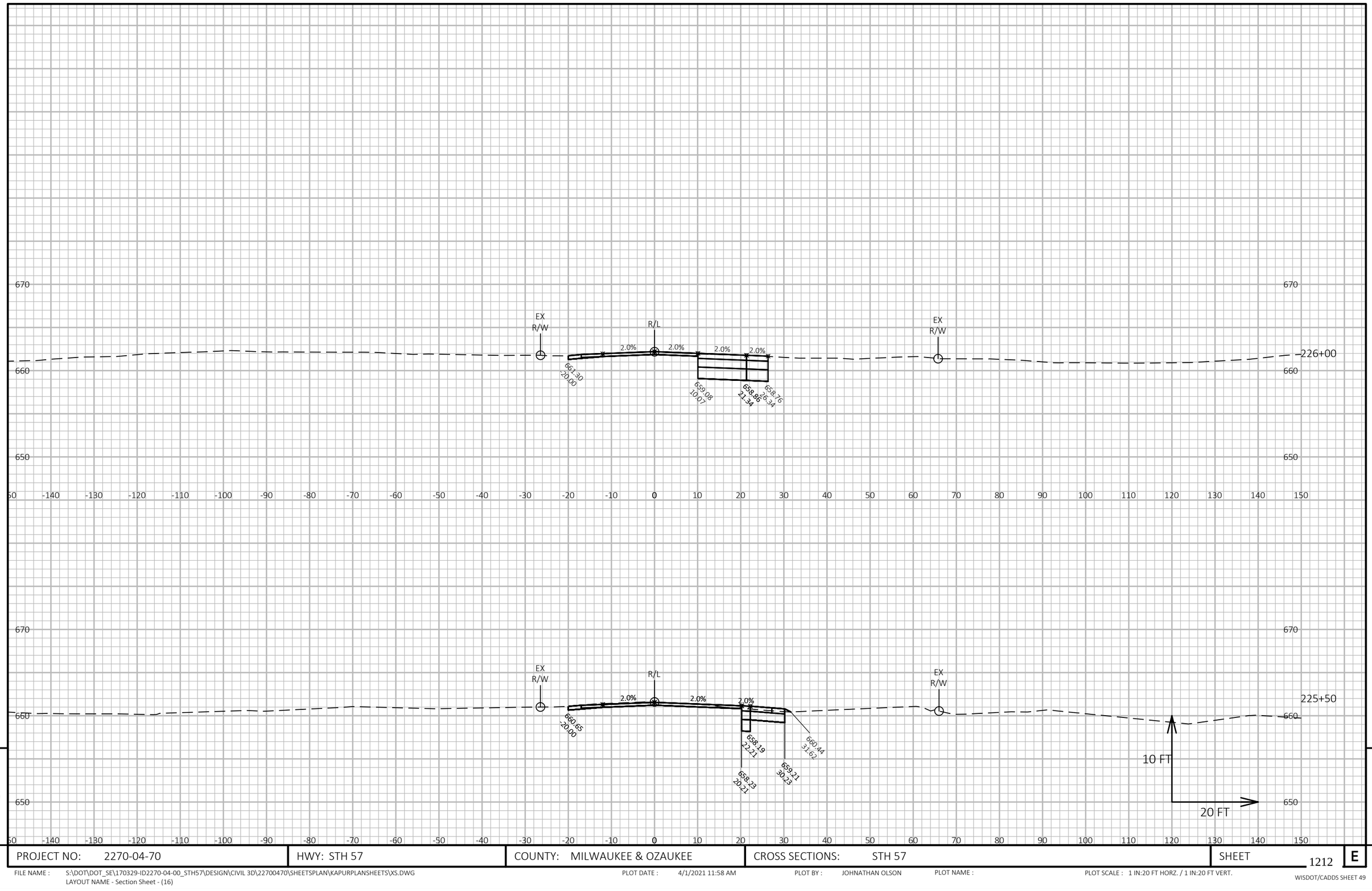
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PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CROSS SECTIONS: STH 57	SHEET 1211	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\XS.DWG
LAYOUT NAME - Section Sheet - (15)

PLOT DATE : 4/1/2021 11:57 AM PLOT BY : JOHNATHAN OLSON PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CROSS SECTIONS: STH 57	SHEET 1212	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\XS.DWG
LAYOUT NAME - Section Sheet - (16)

PLOT DATE : 4/1/2021 11:58 AM PLOT BY : JOHNATHAN OLSON PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

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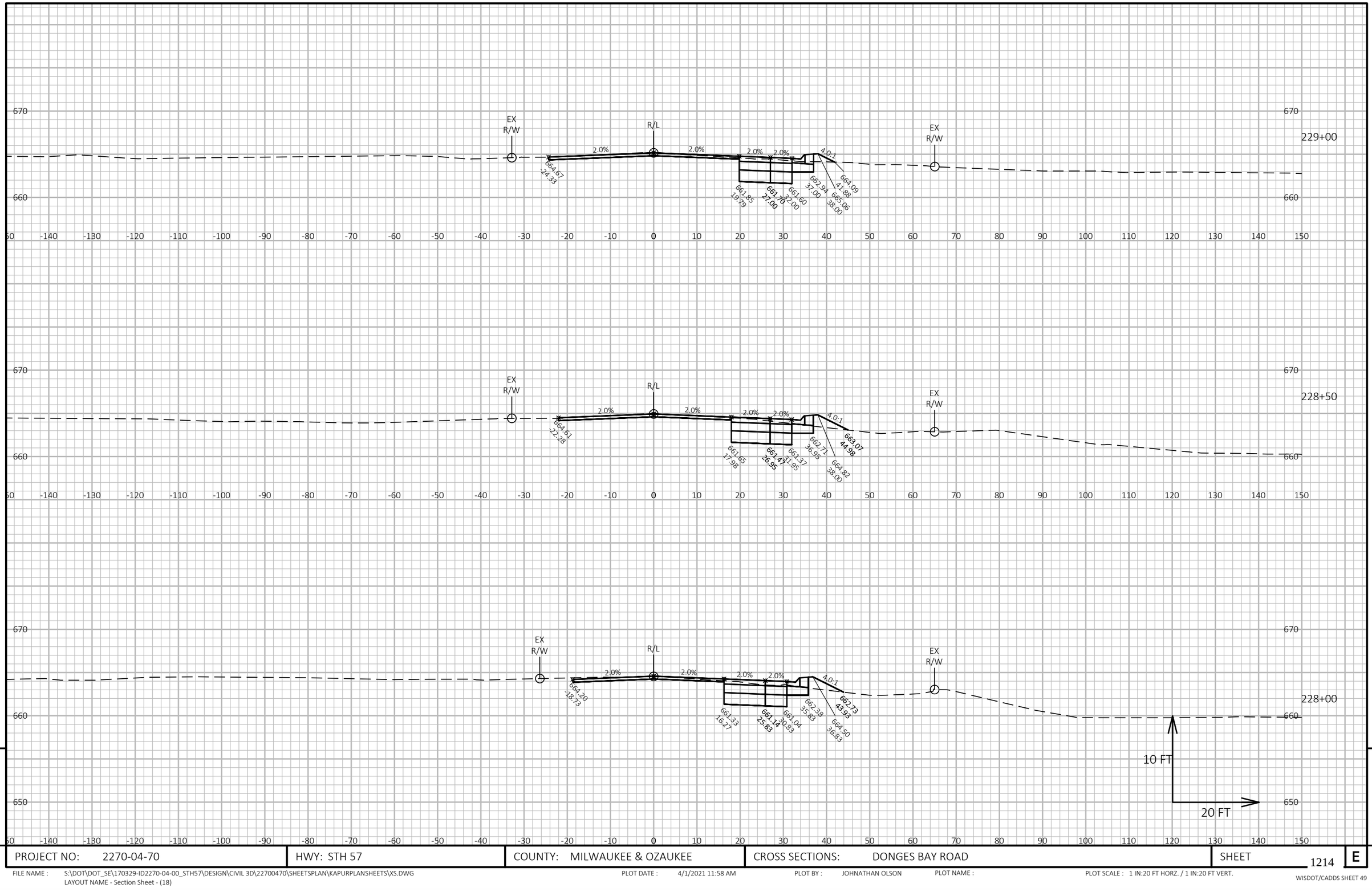
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PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CROSS SECTIONS: STH 57	SHEET 1213	E

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LAYOUT NAME - Section Sheet - (17)

PLOT DATE : 4/1/2021 11:58 AM PLOT BY : JOHNATHAN OLSON PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



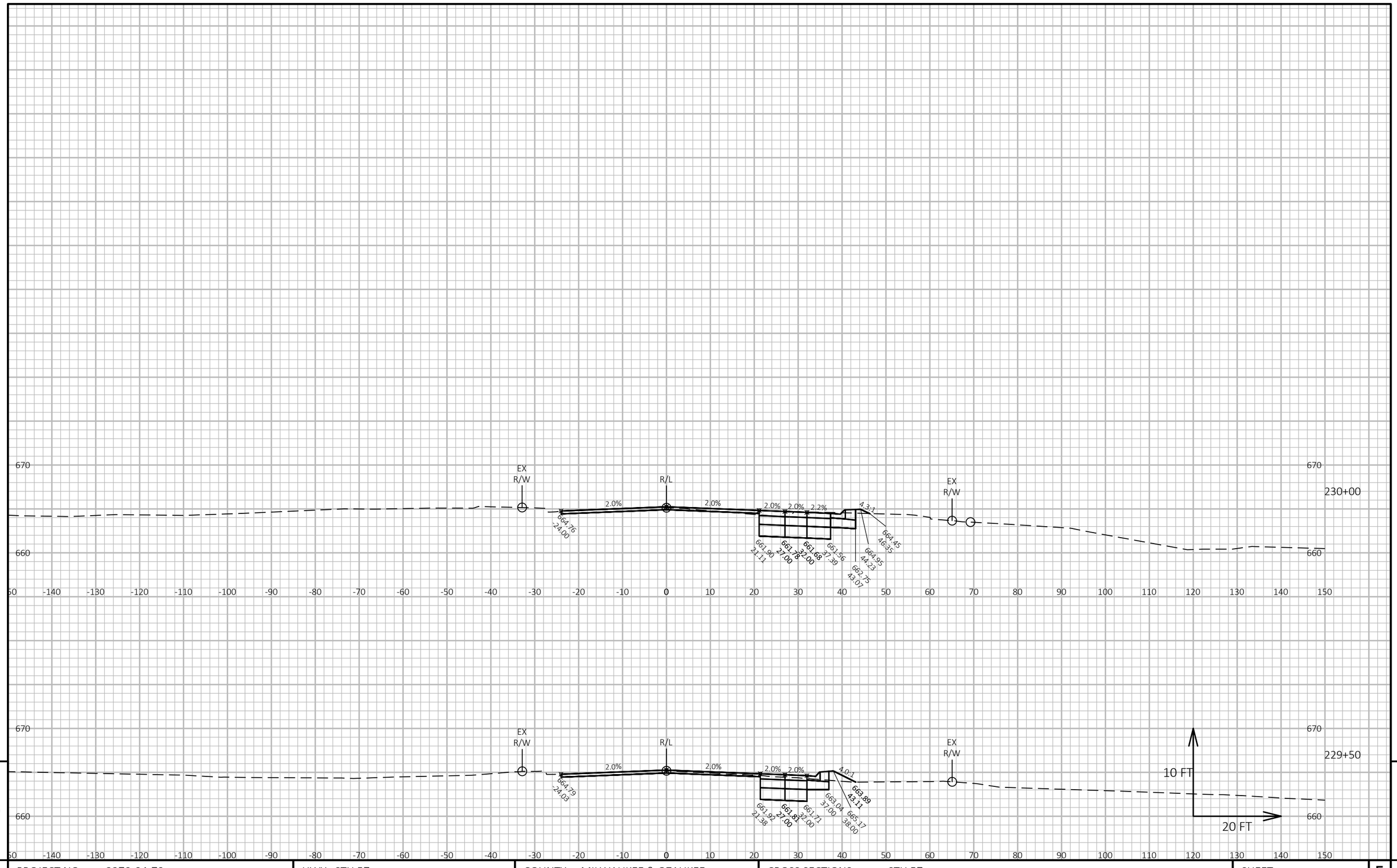
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PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CROSS SECTIONS: DONGES BAY ROAD	SHEET 1214	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\XS.DWG
LAYOUT NAME - Section Sheet - (18)

PLOT DATE : 4/1/2021 11:58 AM PLOT BY : JOHNATHAN OLSON PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



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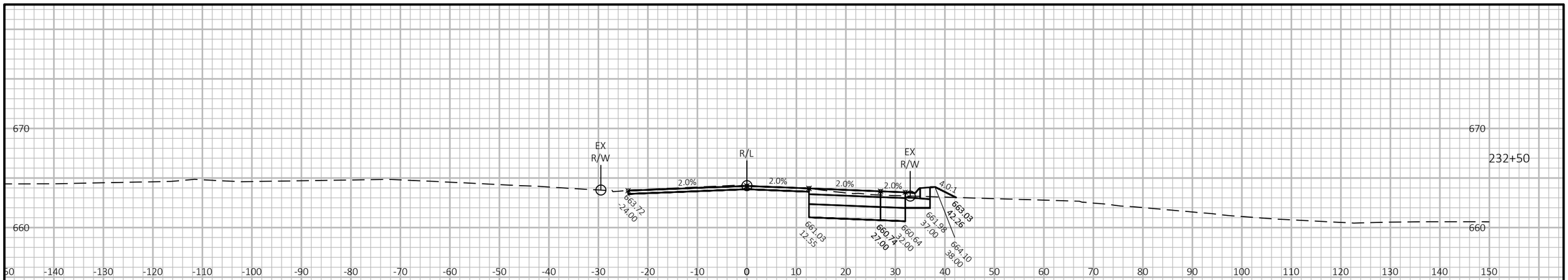
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PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CROSS SECTIONS: STH 57	SHEET 1215	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\XS.DWG
LAYOUT NAME - Section Sheet - (19)

PLOT DATE : 4/1/2021 11:58 AM PLOT BY : JOHNATHAN OLSON PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



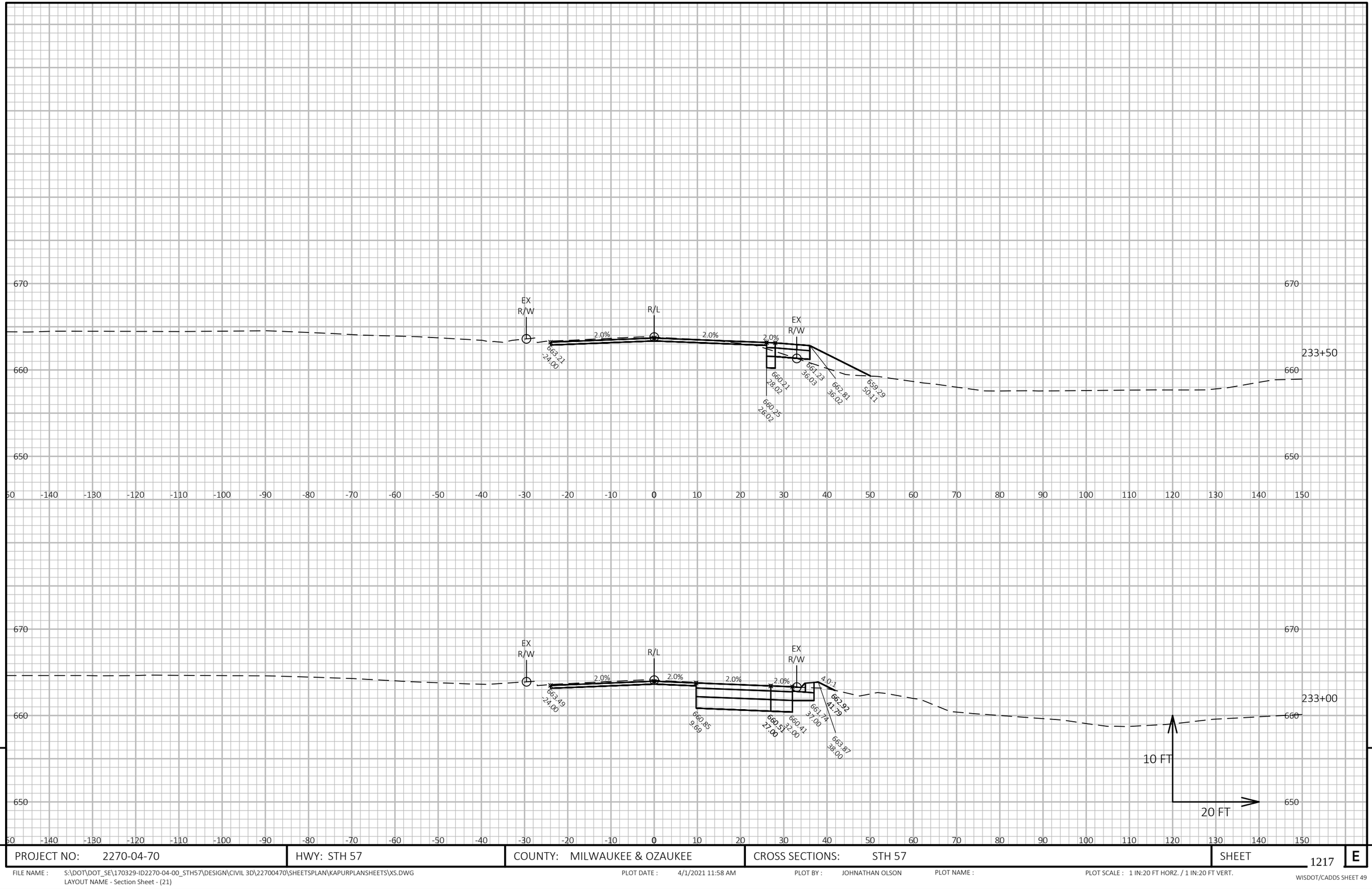
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PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CROSS SECTIONS: STH 57	SHEET 1216	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\XS.DWG
LAYOUT NAME - Section Sheet - (20)

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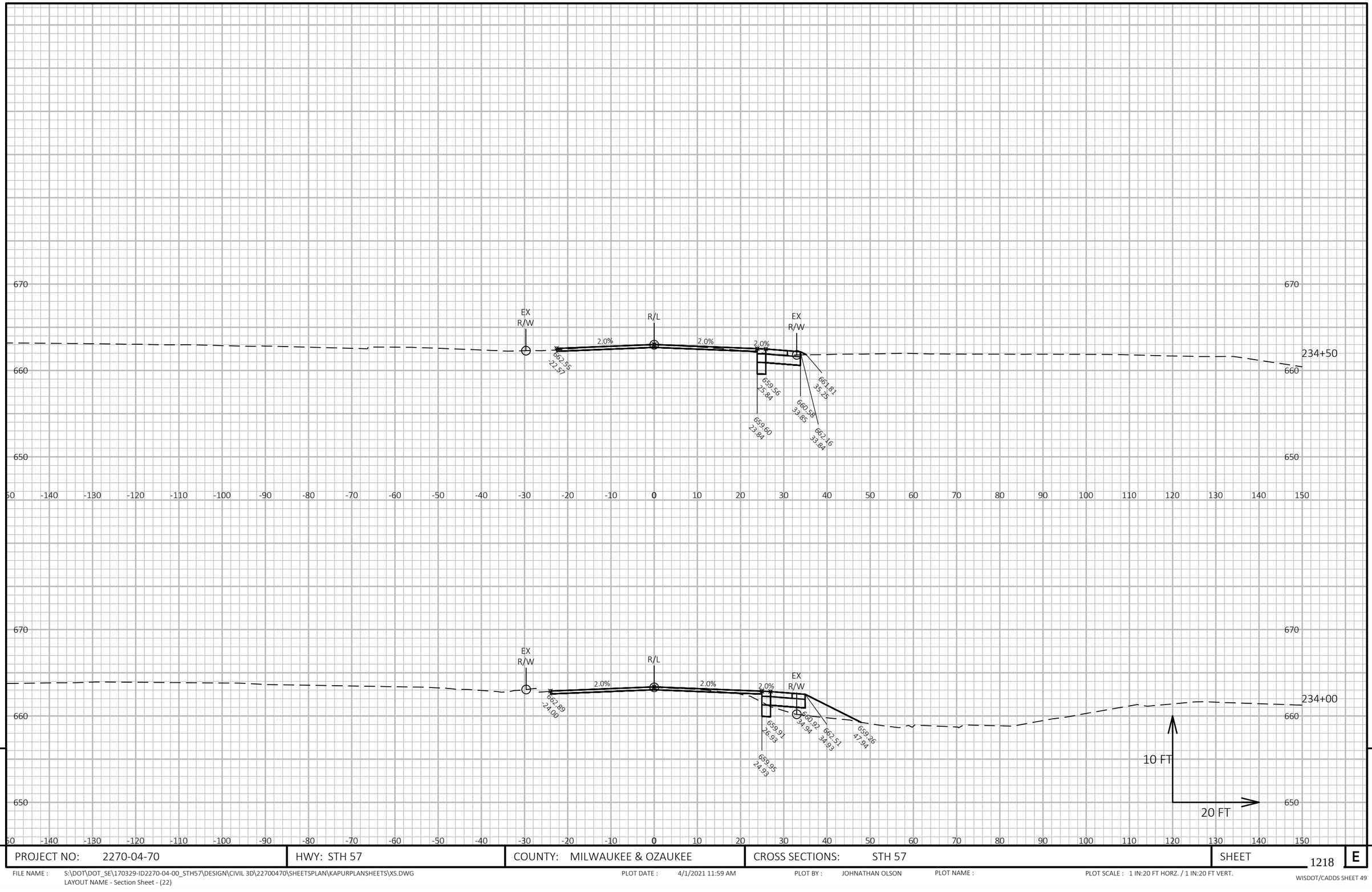
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PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CROSS SECTIONS: STH 57	SHEET 1217	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\XS.DWG
LAYOUT NAME - Section Sheet - (21)

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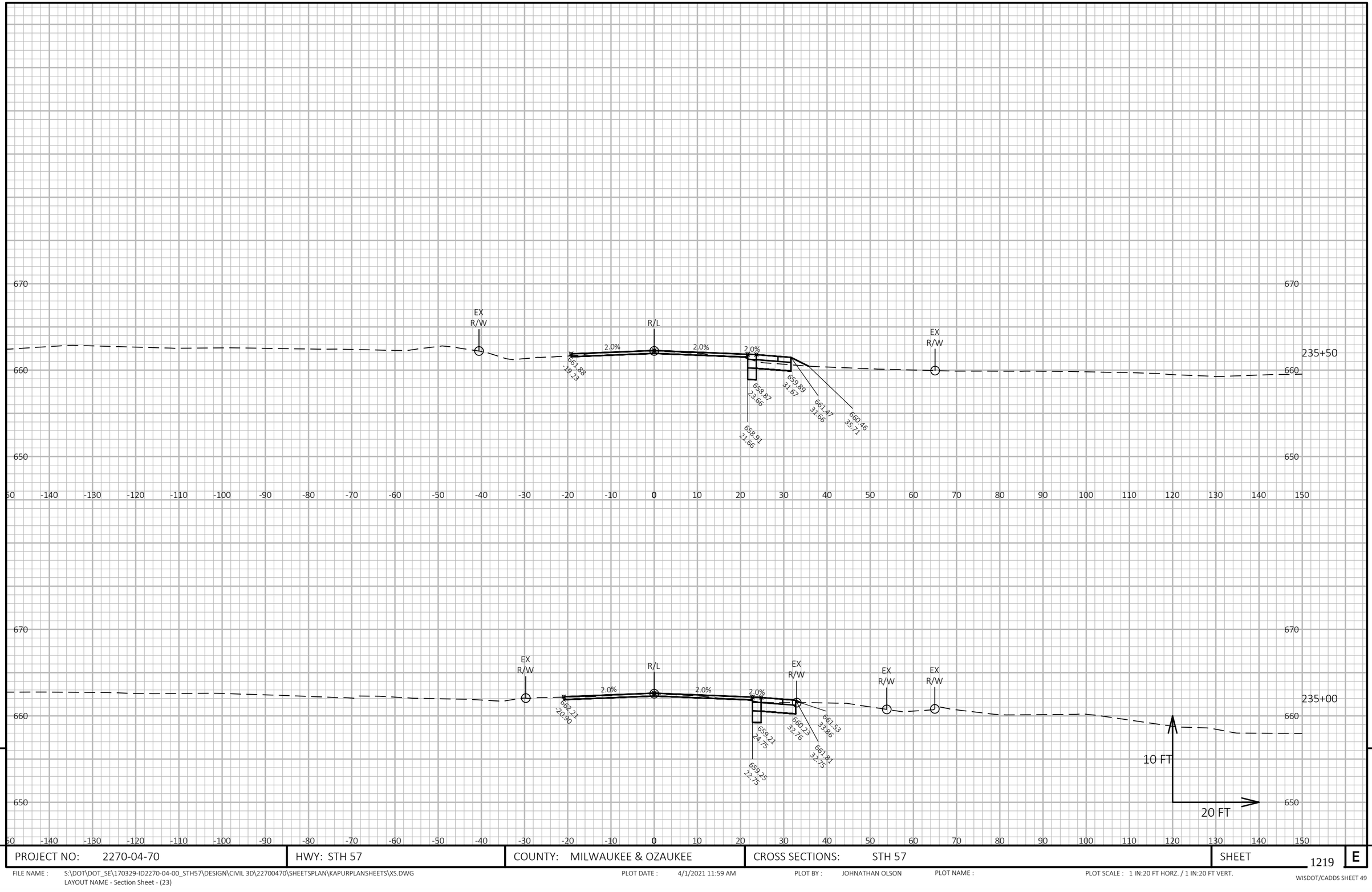
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PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CROSS SECTIONS: STH 57	SHEET 1218 E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\XS.DWG
LAYOUT NAME - Section Sheet - (22)

PLOT DATE : 4/1/2021 11:59 AM PLOT BY : JOHNATHAN OLSON PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.



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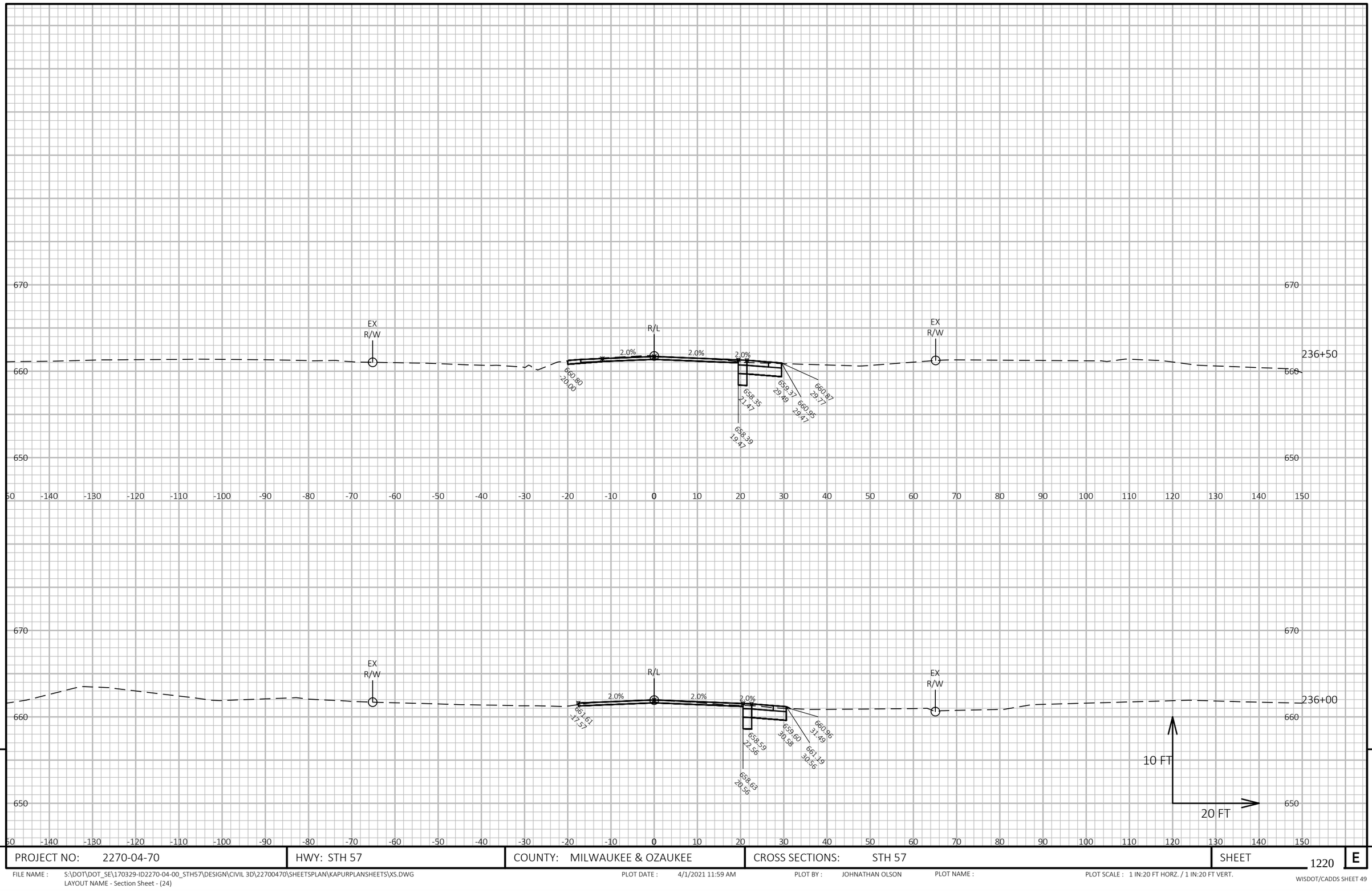
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PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CROSS SECTIONS: STH 57	SHEET 1219	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\XS.DWG
LAYOUT NAME - Section Sheet - (23)

PLOT DATE : 4/1/2021 11:59 AM PLOT BY : JOHNATHAN OLSON PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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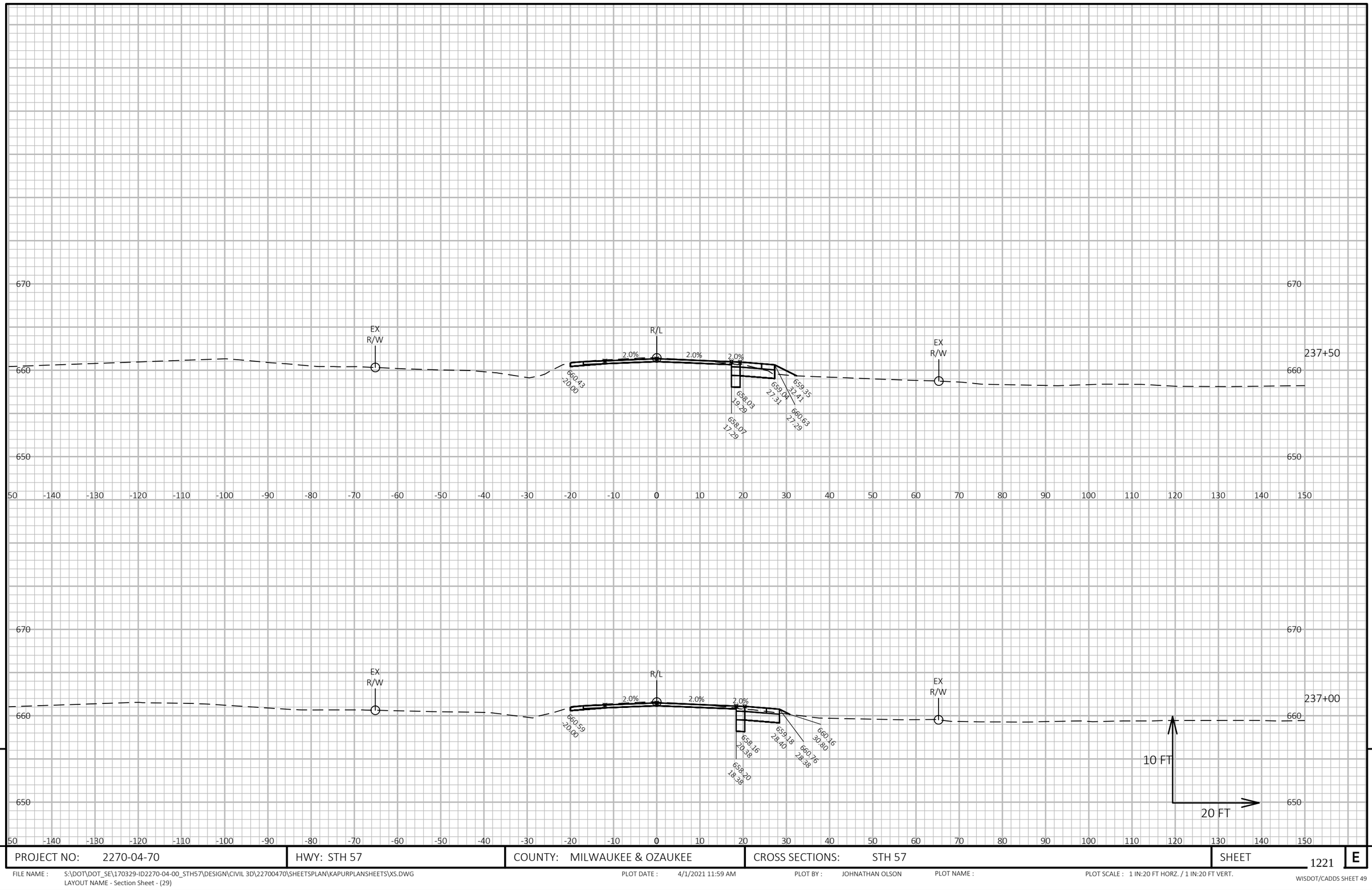
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PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CROSS SECTIONS: STH 57	SHEET 1220	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\XS.DWG
LAYOUT NAME - Section Sheet - (24)

PLOT DATE : 4/1/2021 11:59 AM PLOT BY : JOHNATHAN OLSON PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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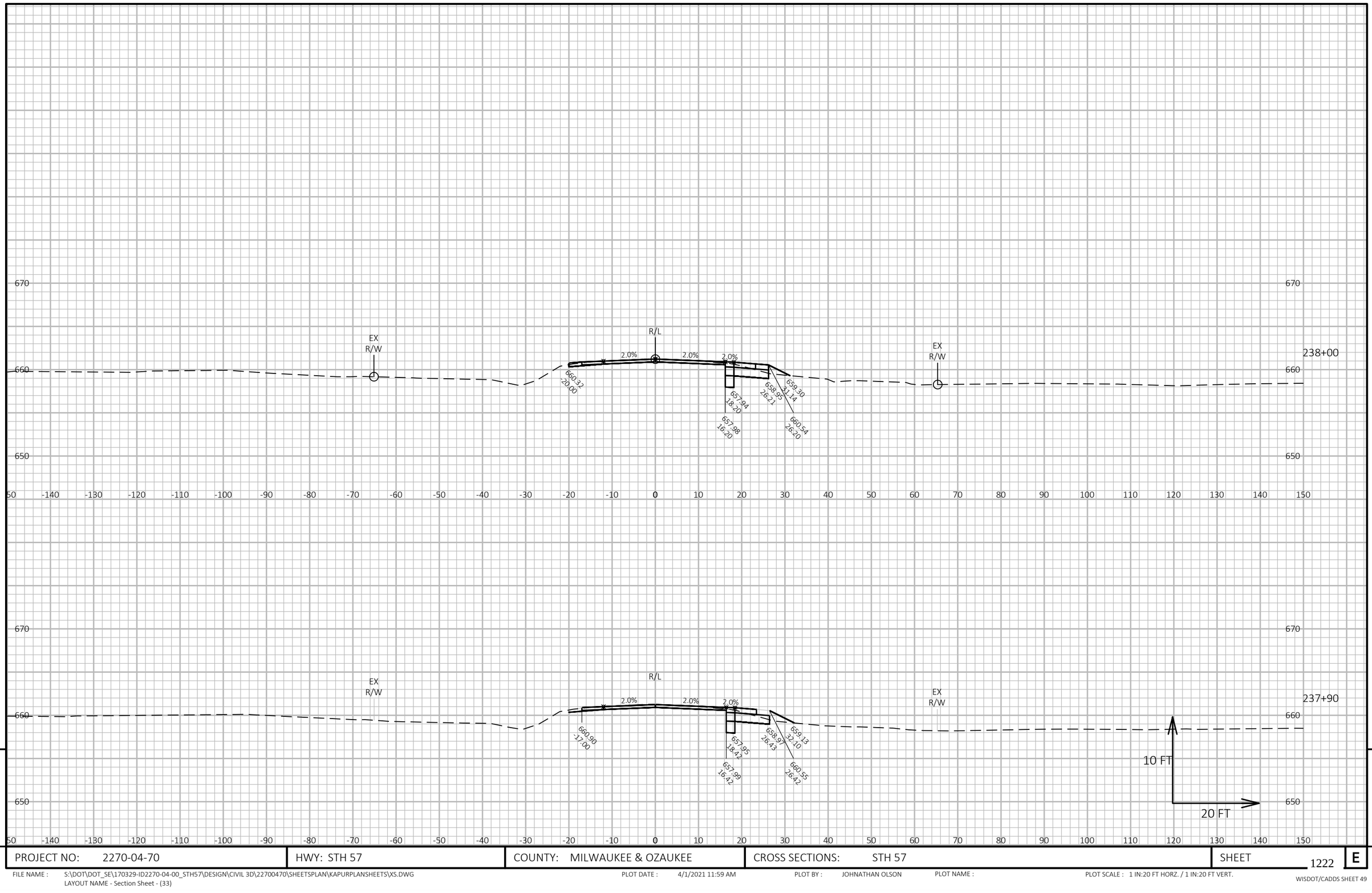
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PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CROSS SECTIONS: STH 57	SHEET 1221	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\XS.DWG
LAYOUT NAME - Section Sheet - (29)

PLOT DATE : 4/1/2021 11:59 AM PLOT BY : JOHNATHAN OLSON PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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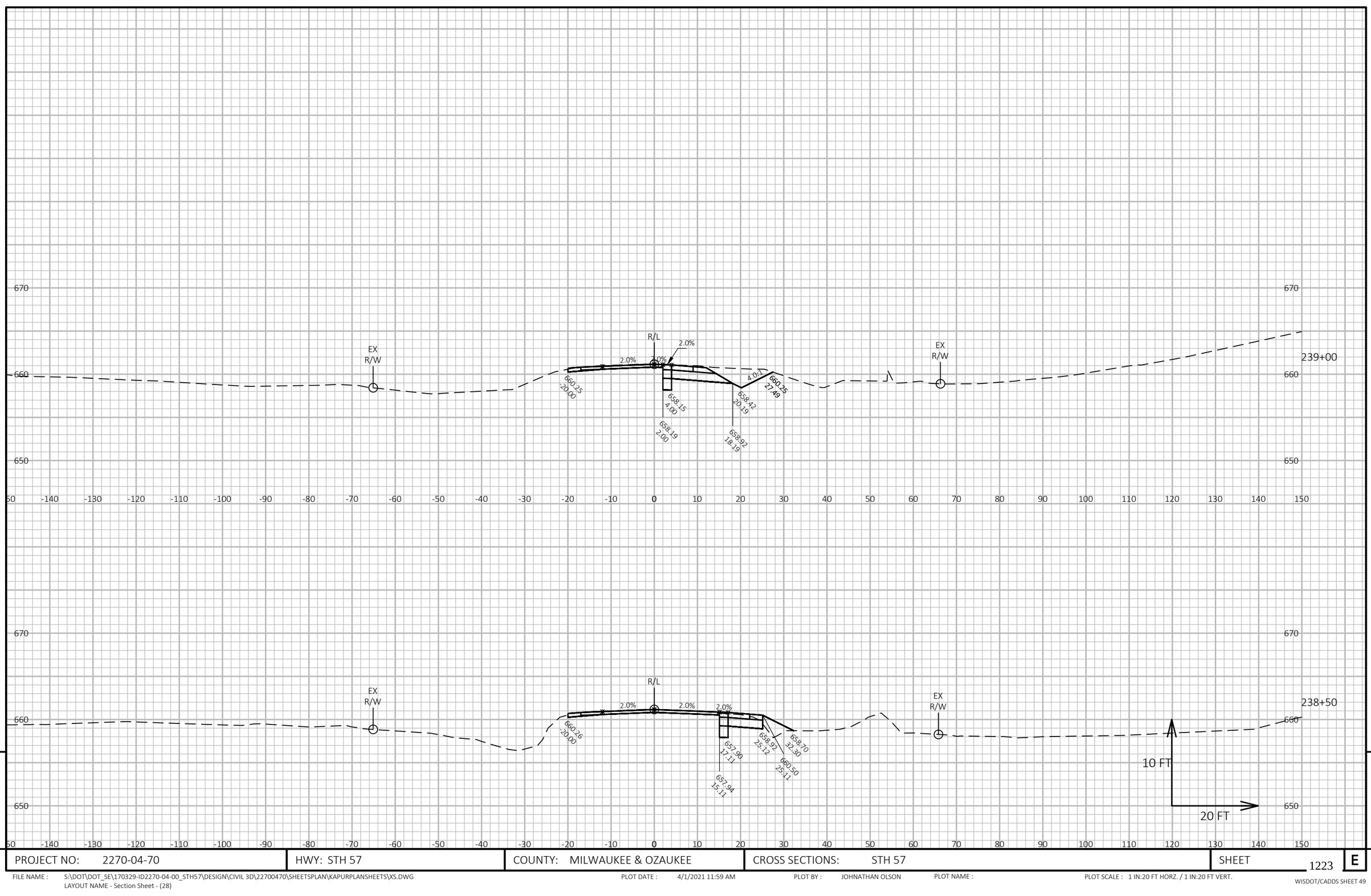
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PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CROSS SECTIONS: STH 57	SHEET 1222	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\XS.DWG
LAYOUT NAME - Section Sheet - (33)

PLOT DATE : 4/1/2021 11:59 AM PLOT BY : JOHNATHAN OLSON PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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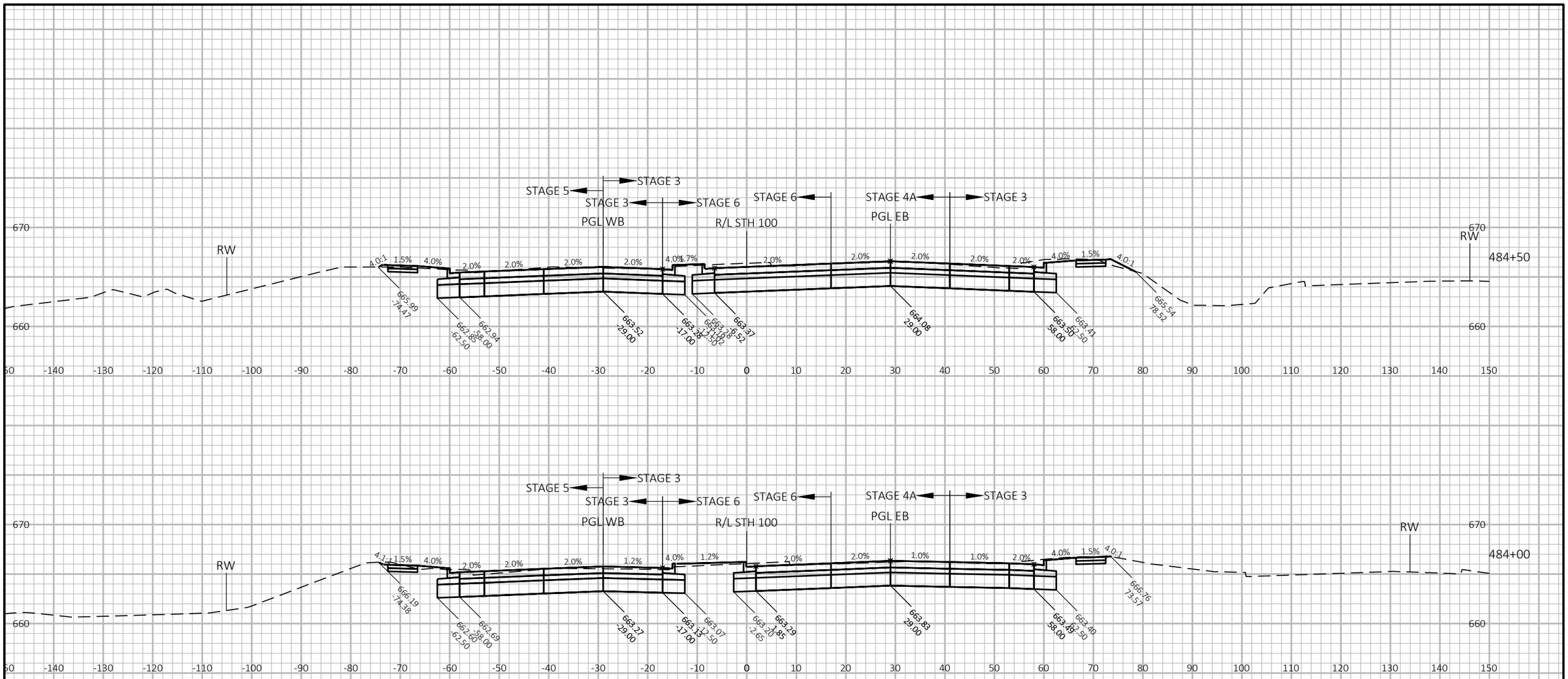
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PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CROSS SECTIONS: STH 57	SHEET 1223	E

FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\XS.DWG
LAYOUT NAME - Section Sheet - (28)

PLOT DATE : 4/1/2021 11:59 AM PLOT BY : JOHNATHAN OLSON PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



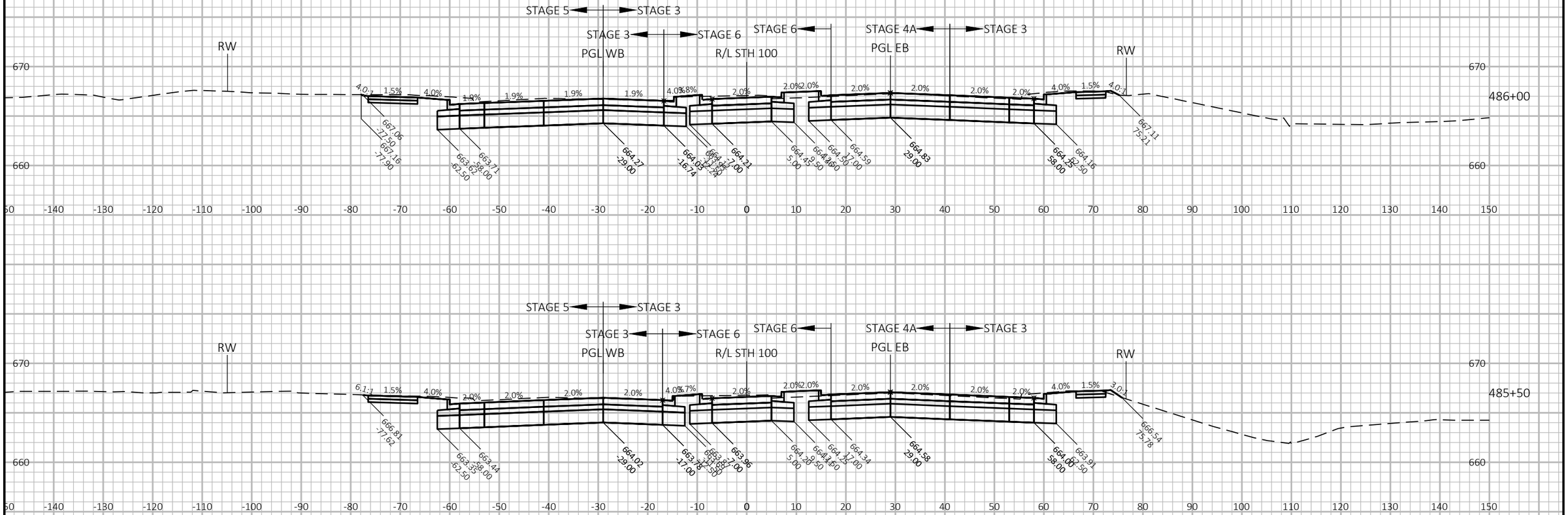
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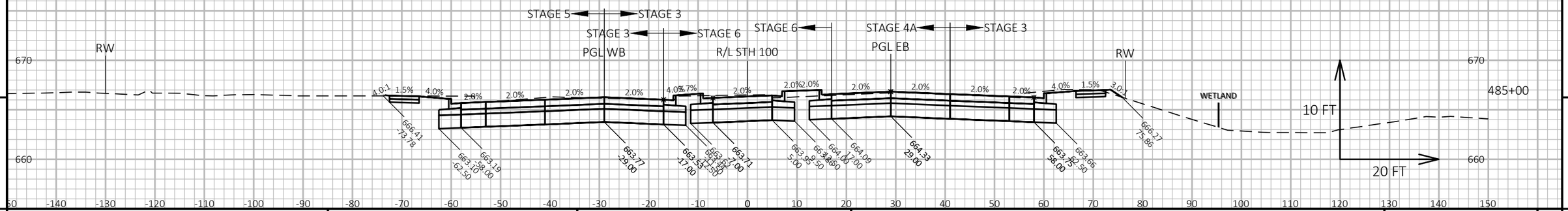
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PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CROSS SECTIONS: STH 100	SHEET 1224	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - 090232

PLOT DATE : 7/22/2021 11:27 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.





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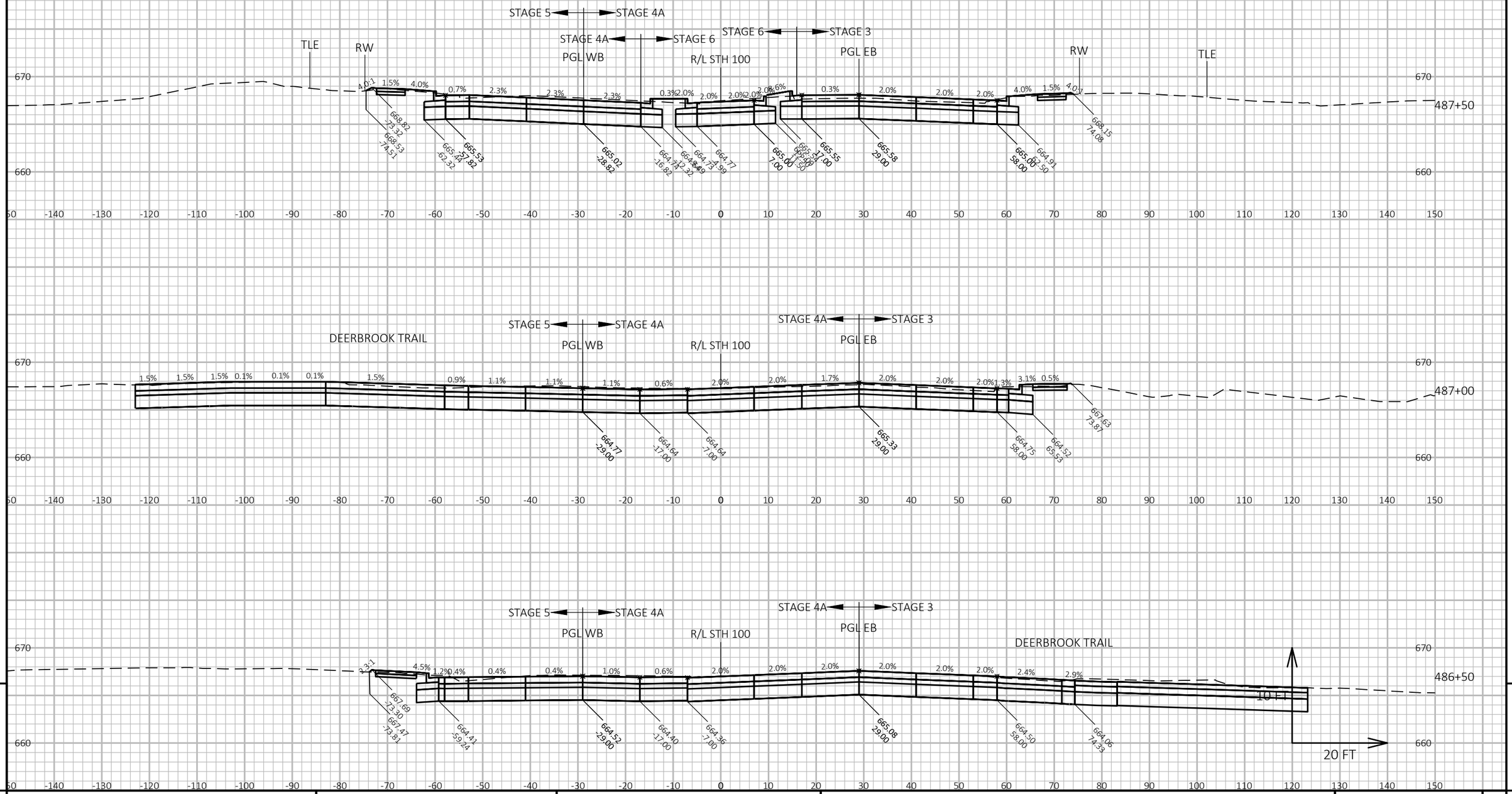
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PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CROSS SECTIONS: STH 100	SHEET 1225	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - 090233

PLOT DATE : 7/22/2021 11:28 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CROSS SECTIONS: STH 100	SHEET 1226	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - 090234

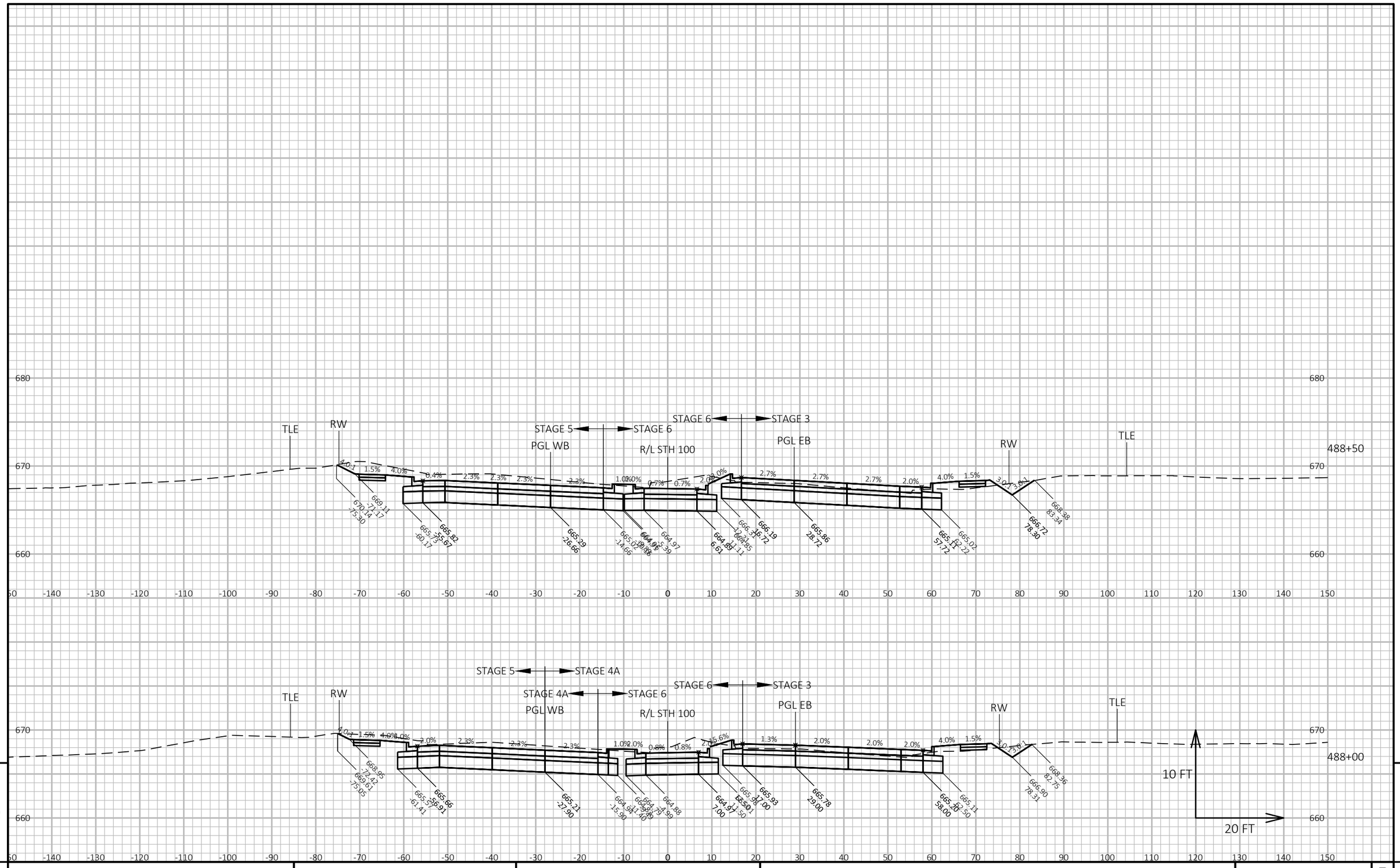
PLOT DATE : 7/22/2021 11:28 AM

PLOT BY : TONY BUBLITZ

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

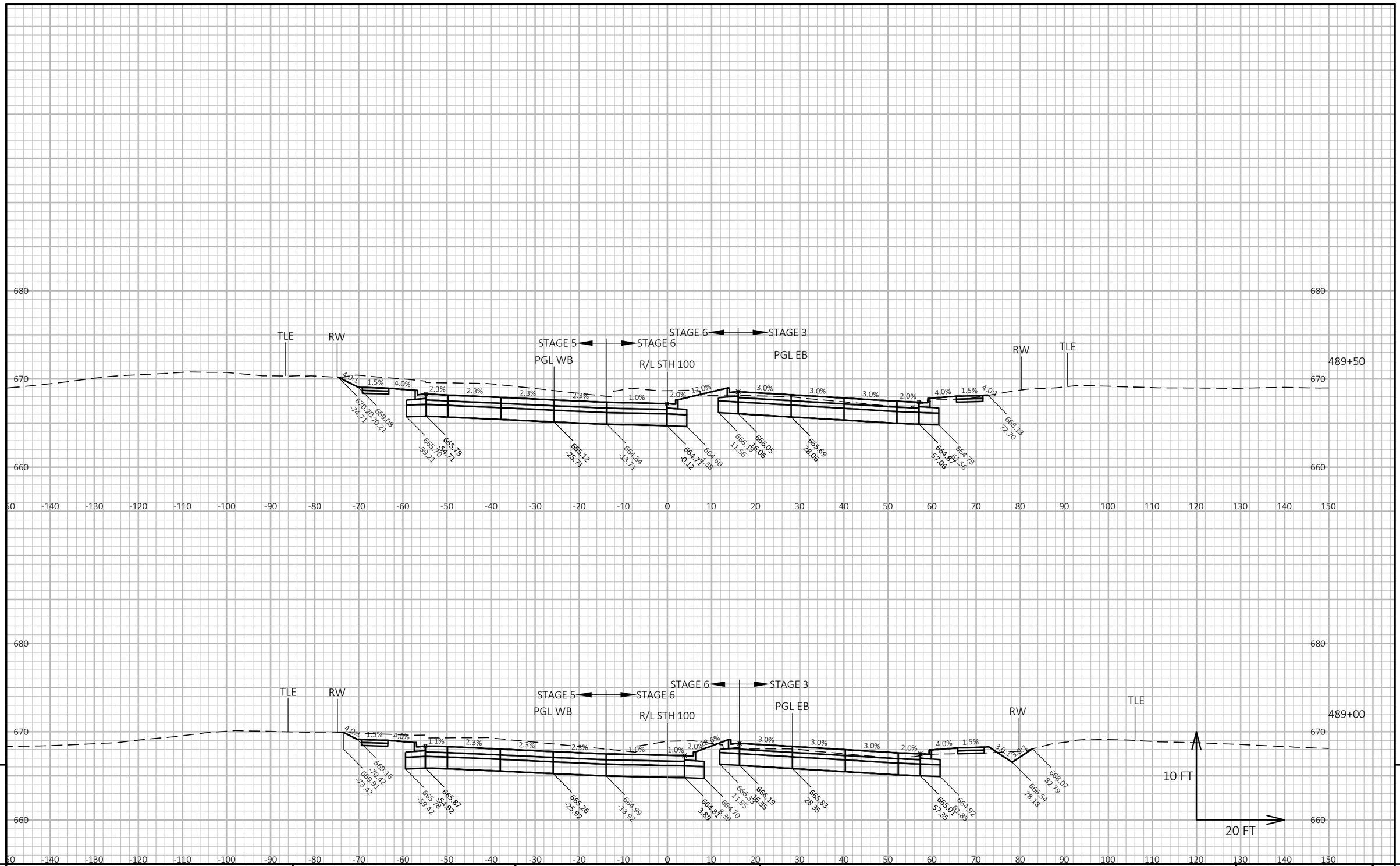
WISDOT/CADDS SHEET 49



PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CROSS SECTIONS: STH 100	SHEET 1227	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - 090235

PLOT DATE : 7/22/2021 11:29 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

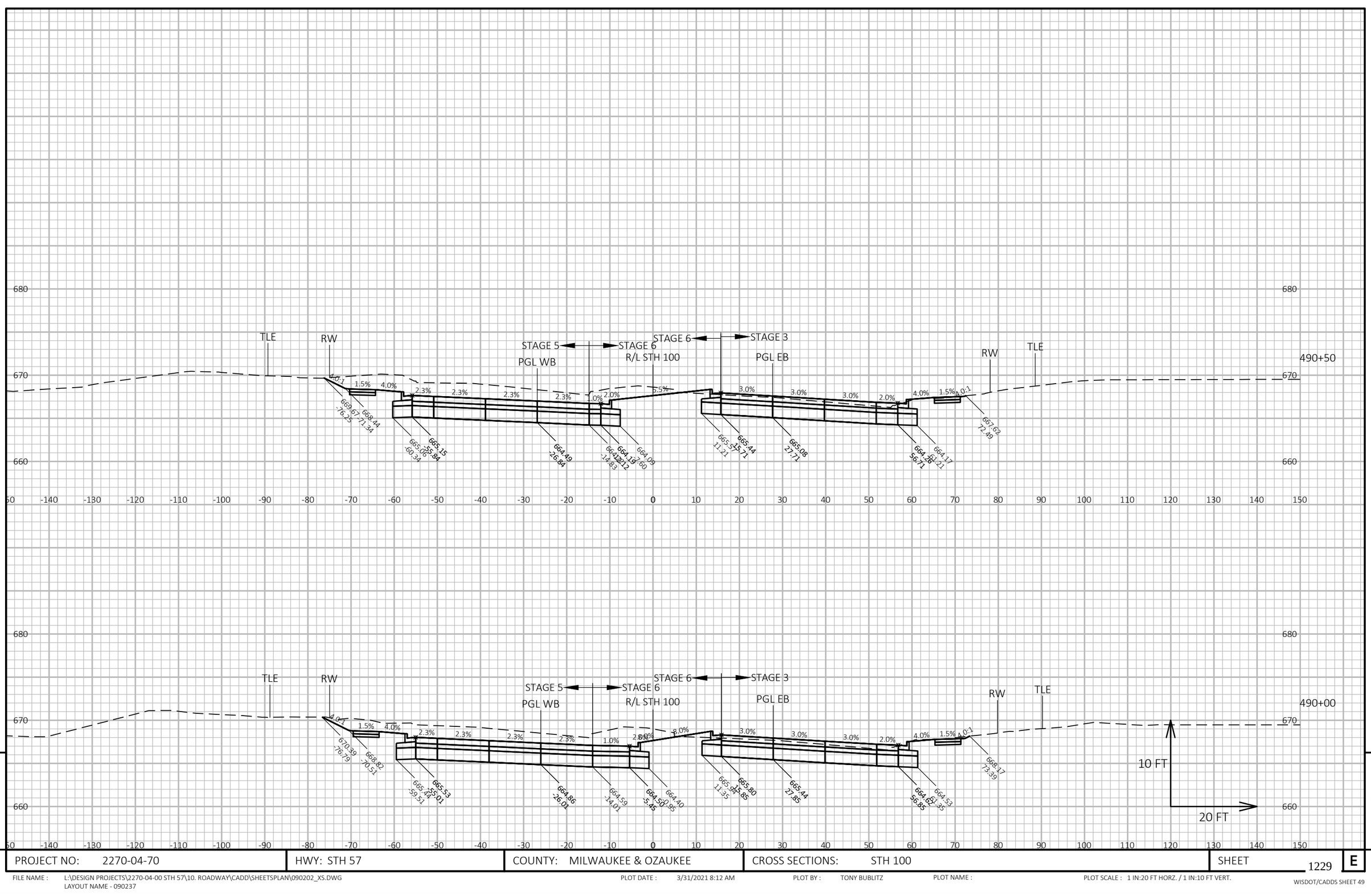


PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CROSS SECTIONS: STH 100	SHEET 1228	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - 090236

PLOT DATE : 3/31/2021 8:12 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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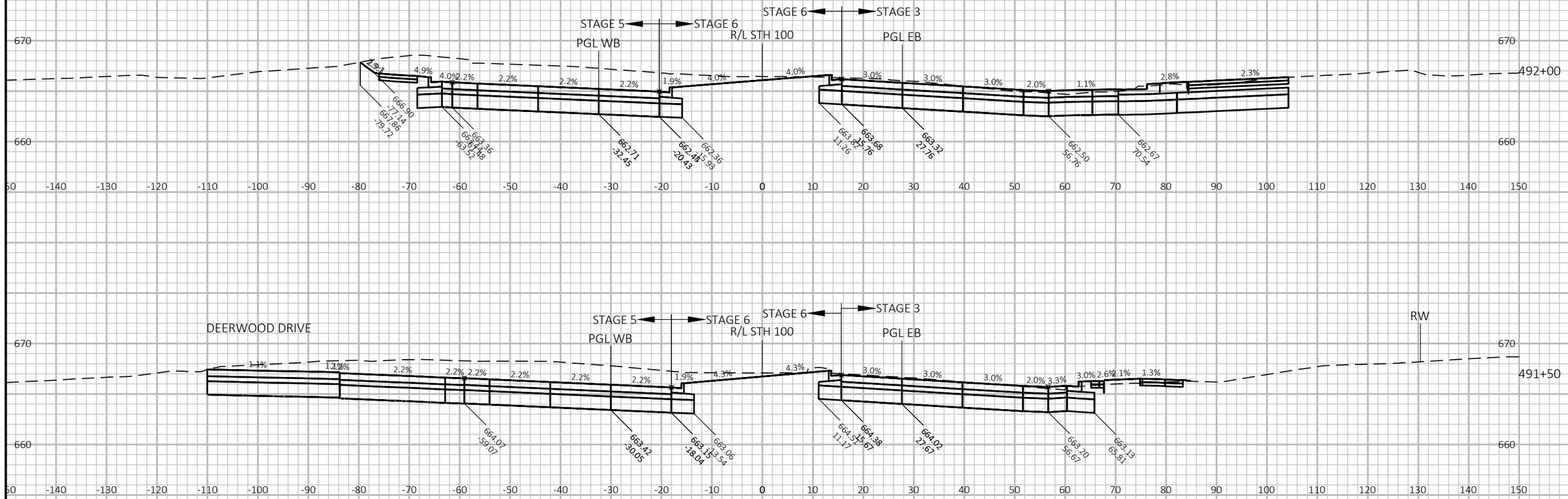
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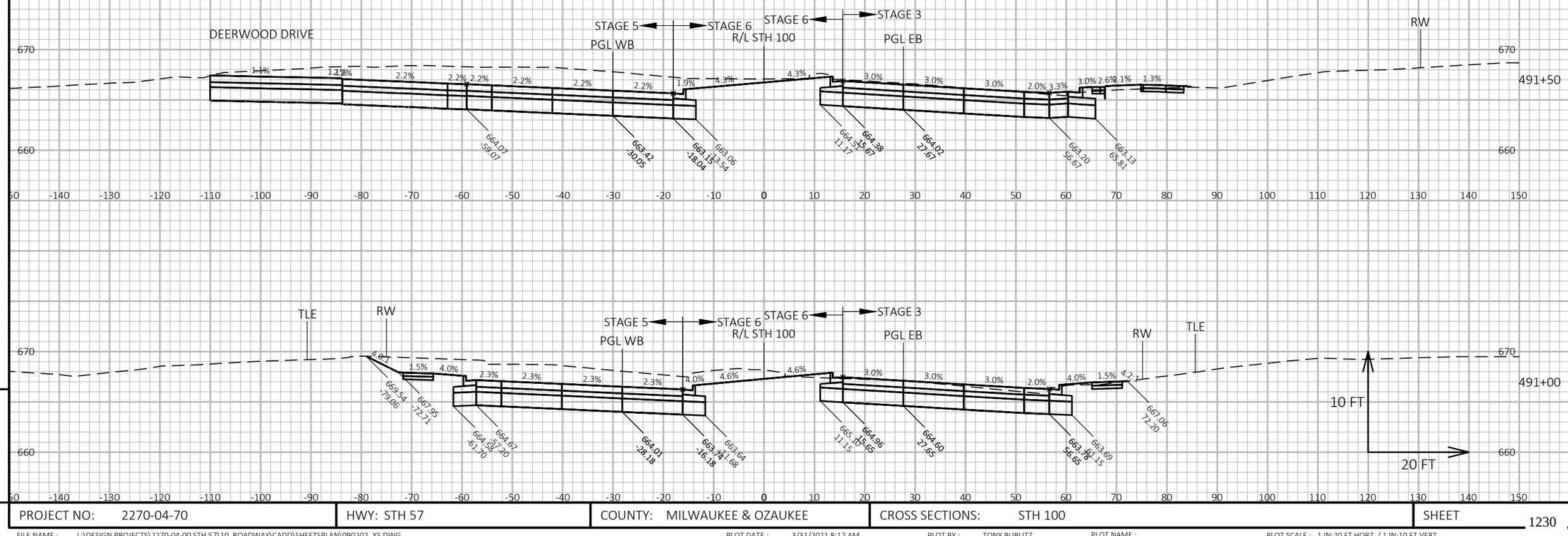
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FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - 090237

PLOT DATE : 3/31/2021 8:12 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49





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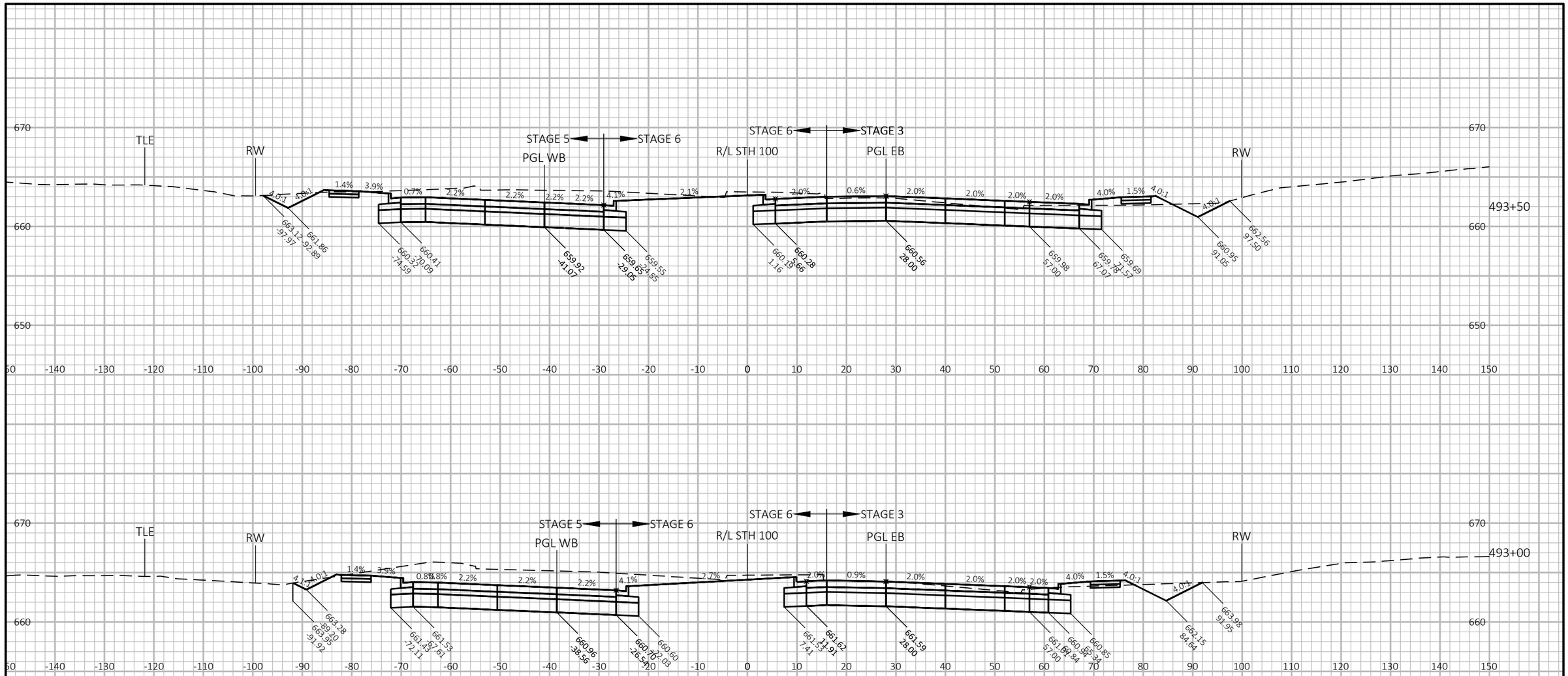
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PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CROSS SECTIONS: STH 100	SHEET 1230	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - 090238

PLOT DATE : 3/31/2021 8:12 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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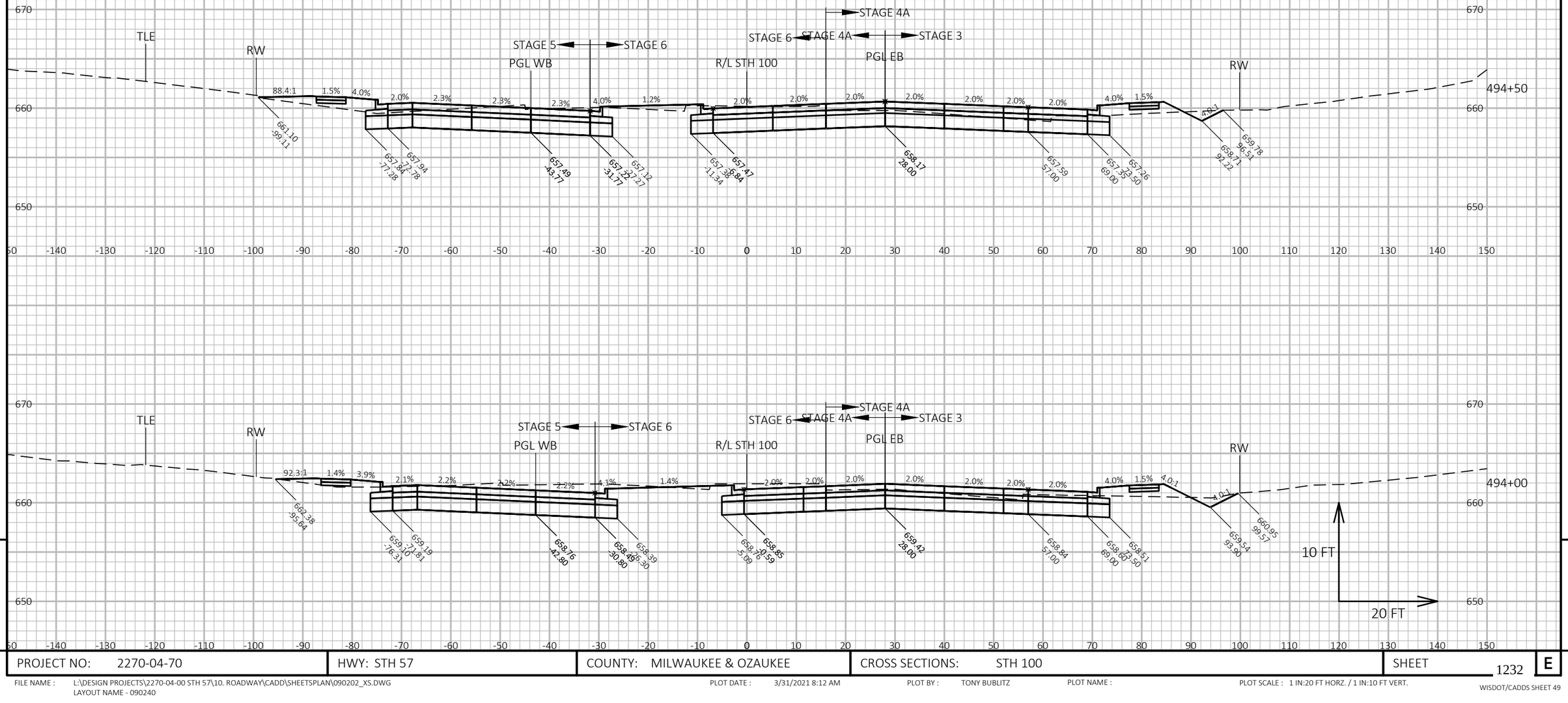
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PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CROSS SECTIONS: STH 100	SHEET 1231 E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - 090239

PLOT DATE : 3/31/2021 8:12 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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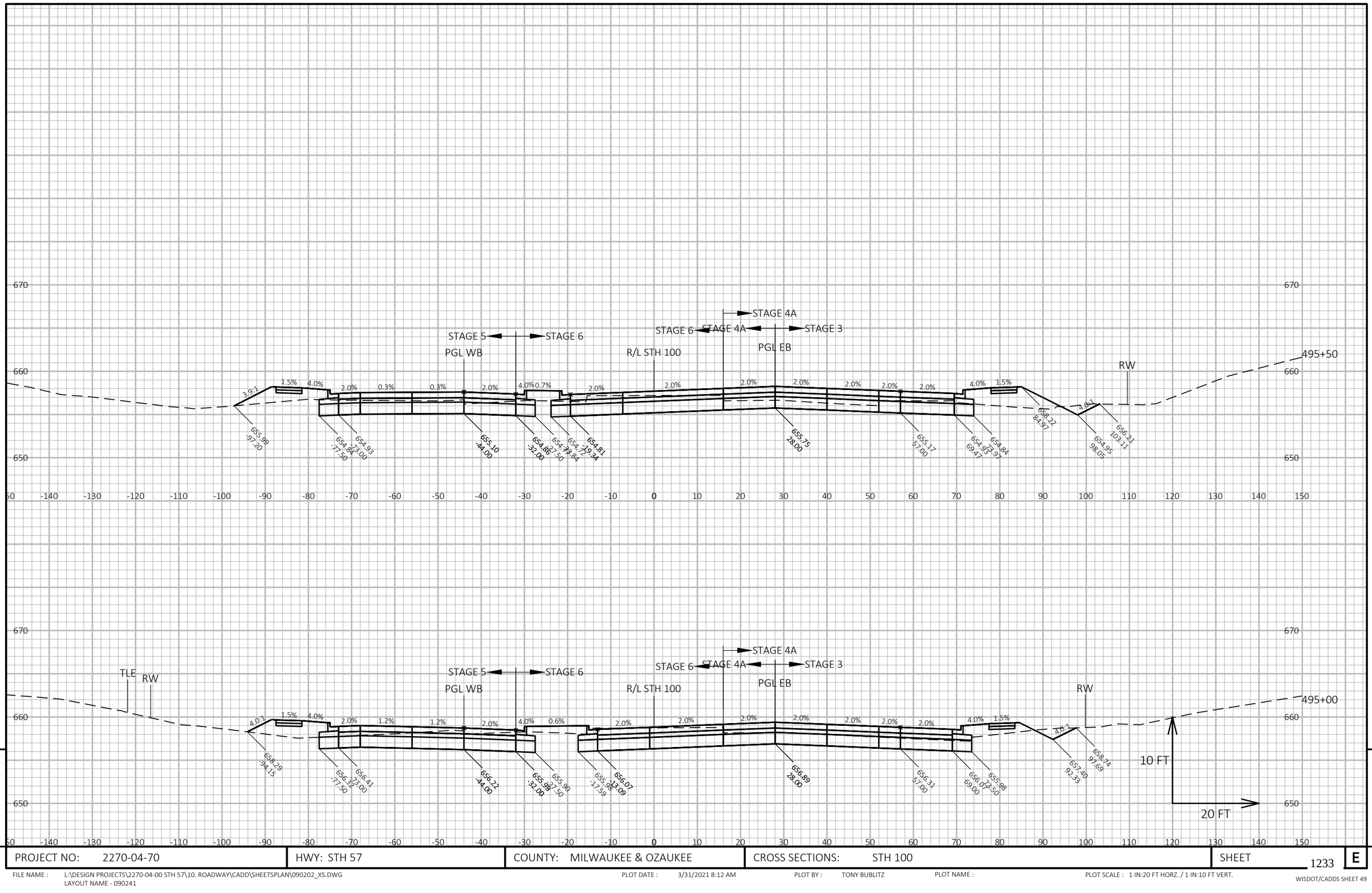
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PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CROSS SECTIONS: STH 100	SHEET 1232	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - 090240

PLOT DATE : 3/31/2021 8:12 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CROSS SECTIONS: STH 100	SHEET 1233	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - 090241

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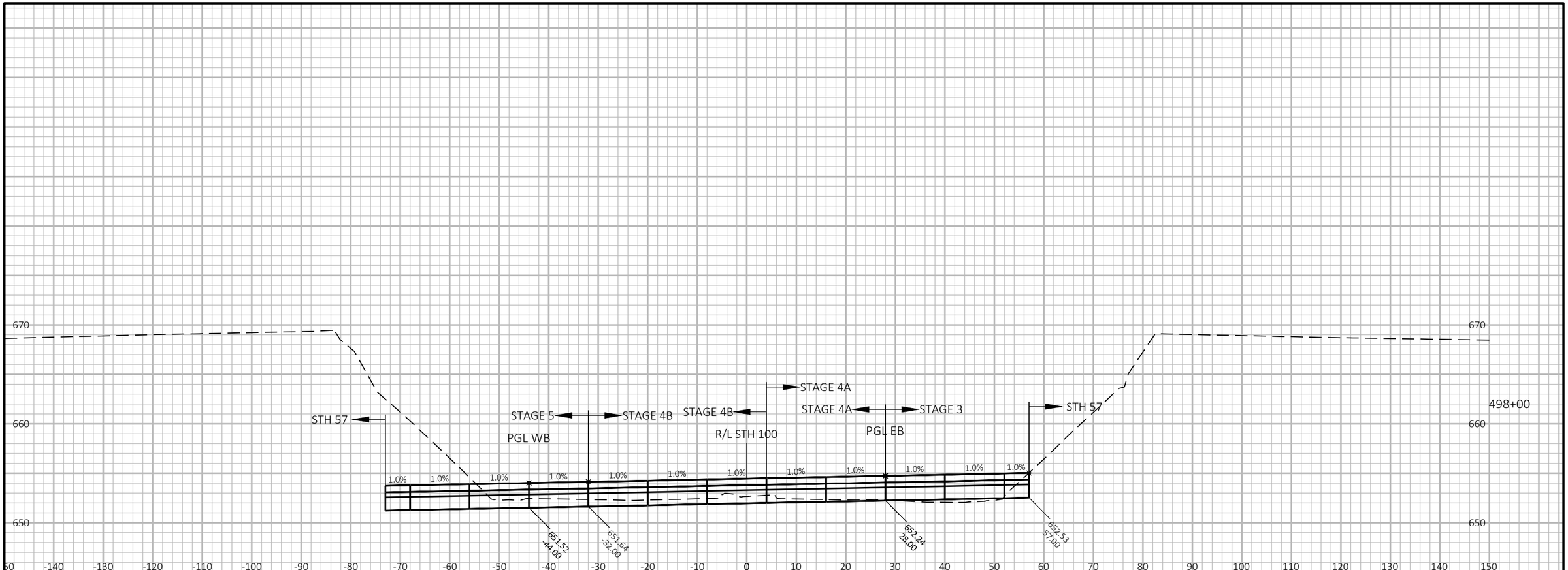
WISDOT/CADDS SHEET 49

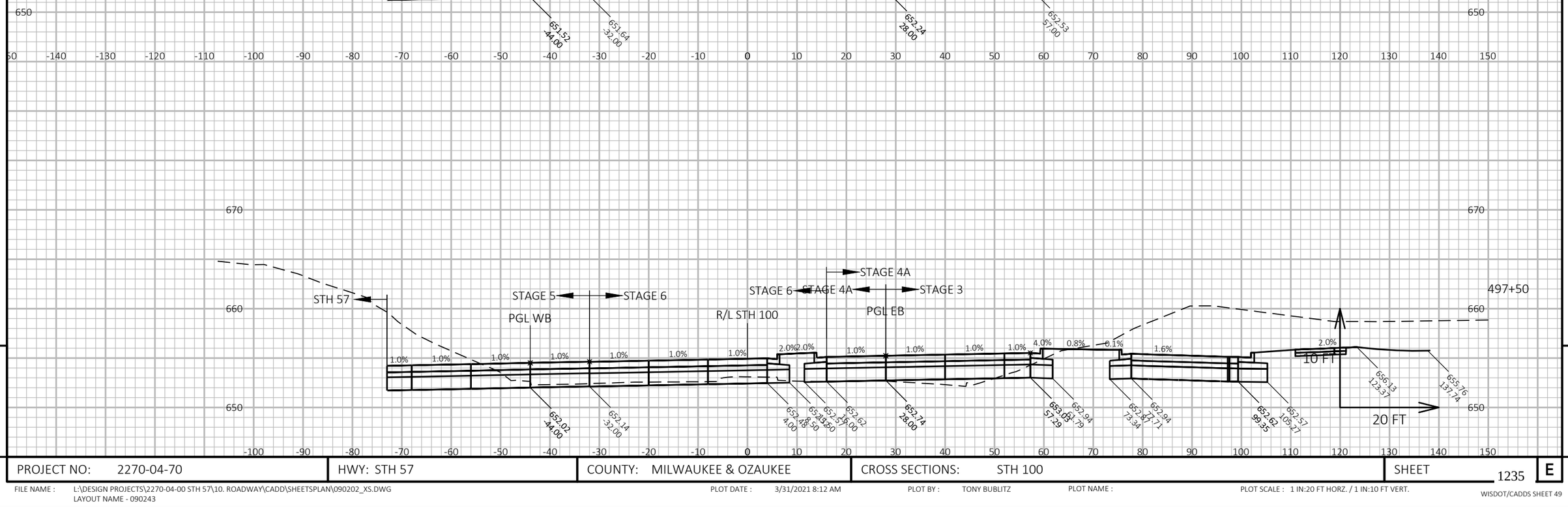
PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CROSS SECTIONS: STH 100	SHEET 1234 E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - 090242

PLOT DATE : 3/31/2021 8:12 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



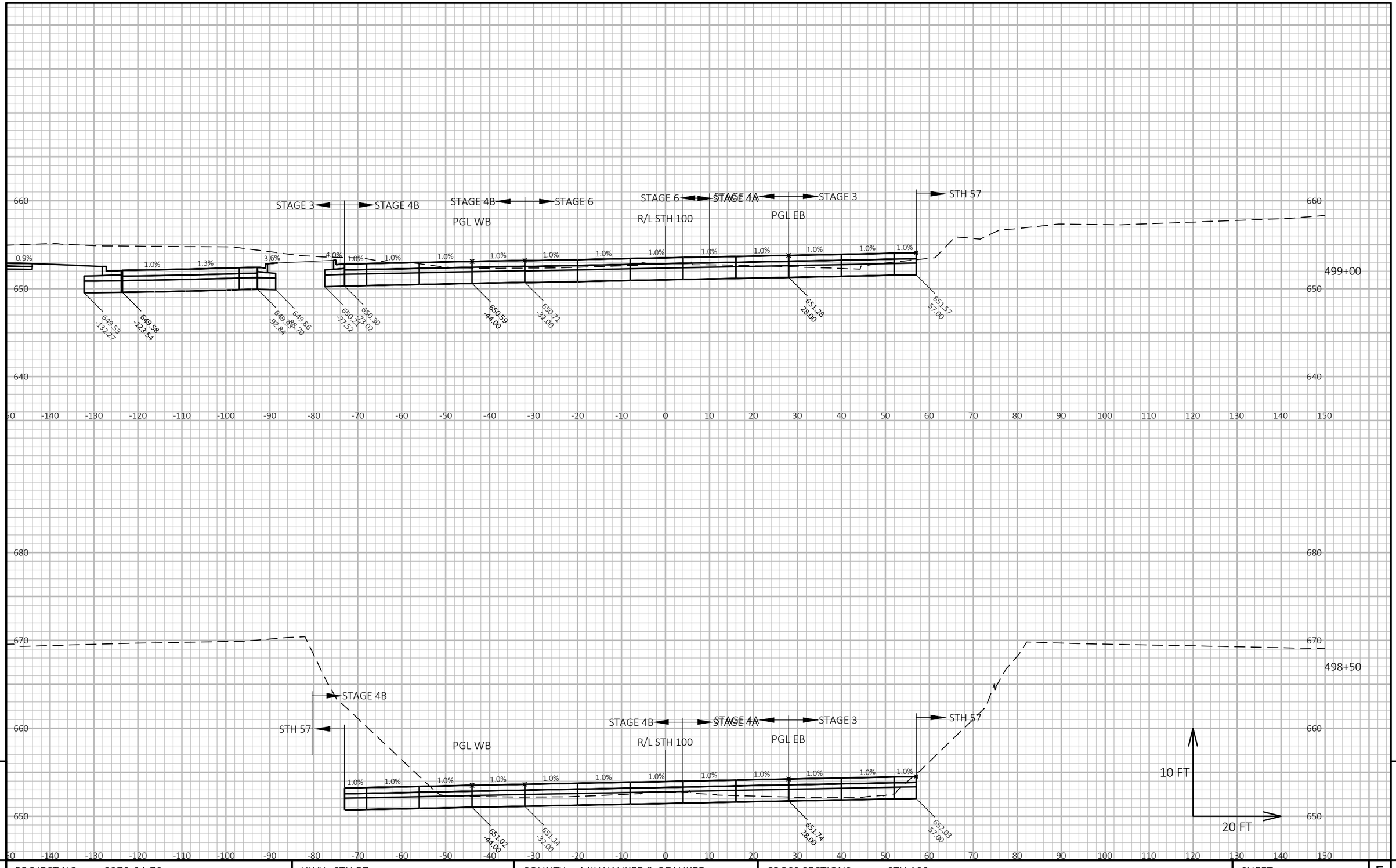


PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CROSS SECTIONS: STH 100	SHEET 1235	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - 090243

PLOT DATE : 3/31/2021 8:12 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CROSS SECTIONS: STH 100	SHEET 1236	E

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LAYOUT NAME - 090244

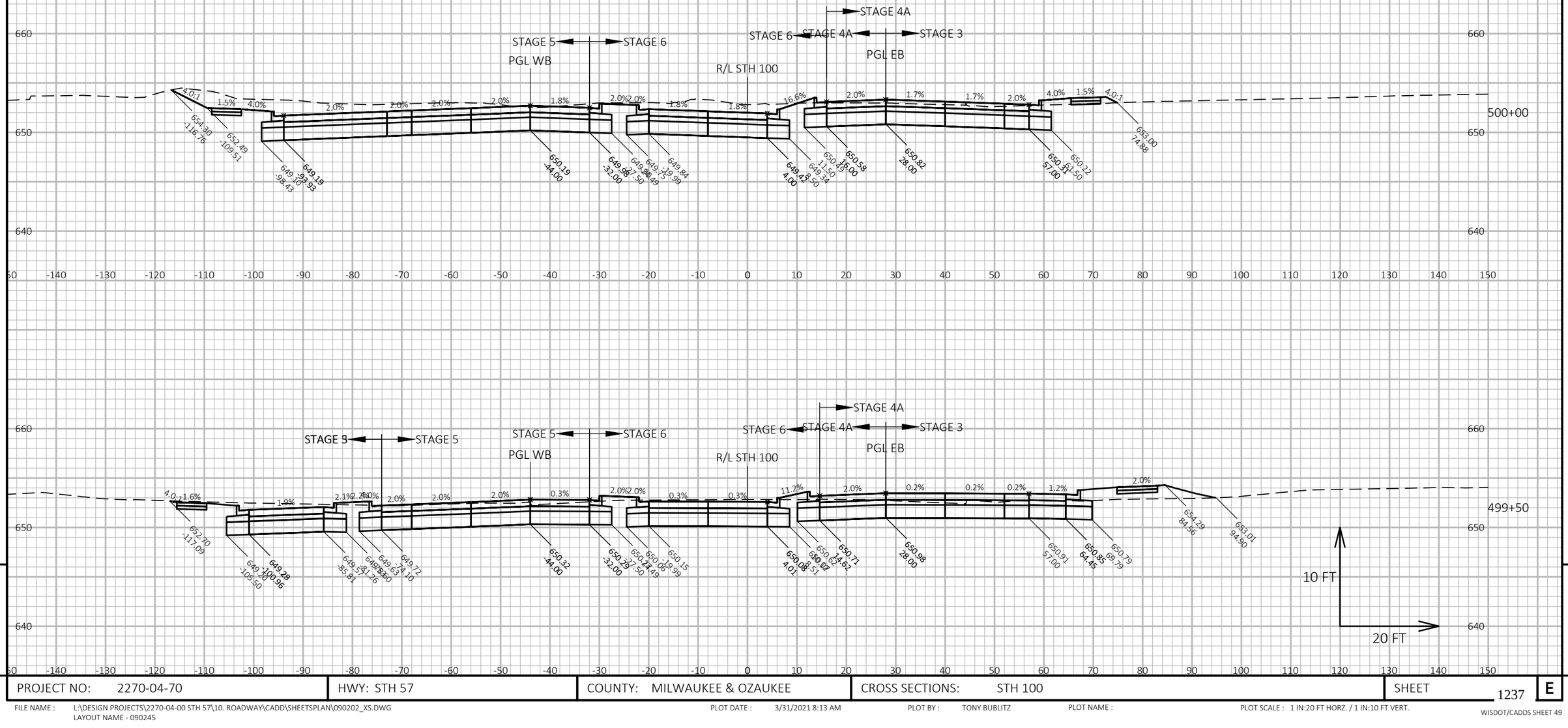
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PLOT BY : TONY BUBLITZ

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

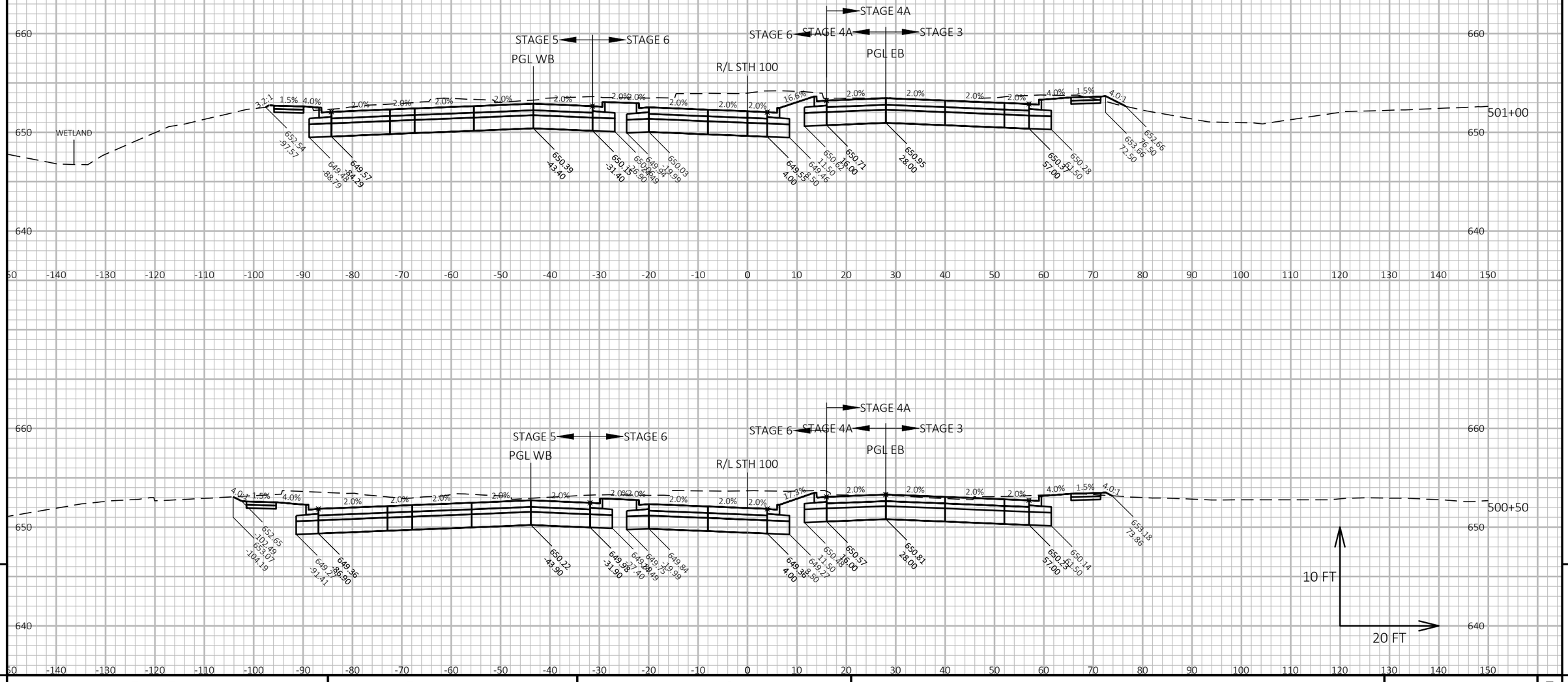
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PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CROSS SECTIONS: STH 100	SHEET 1237	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - 090245

PLOT DATE : 3/31/2021 8:13 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

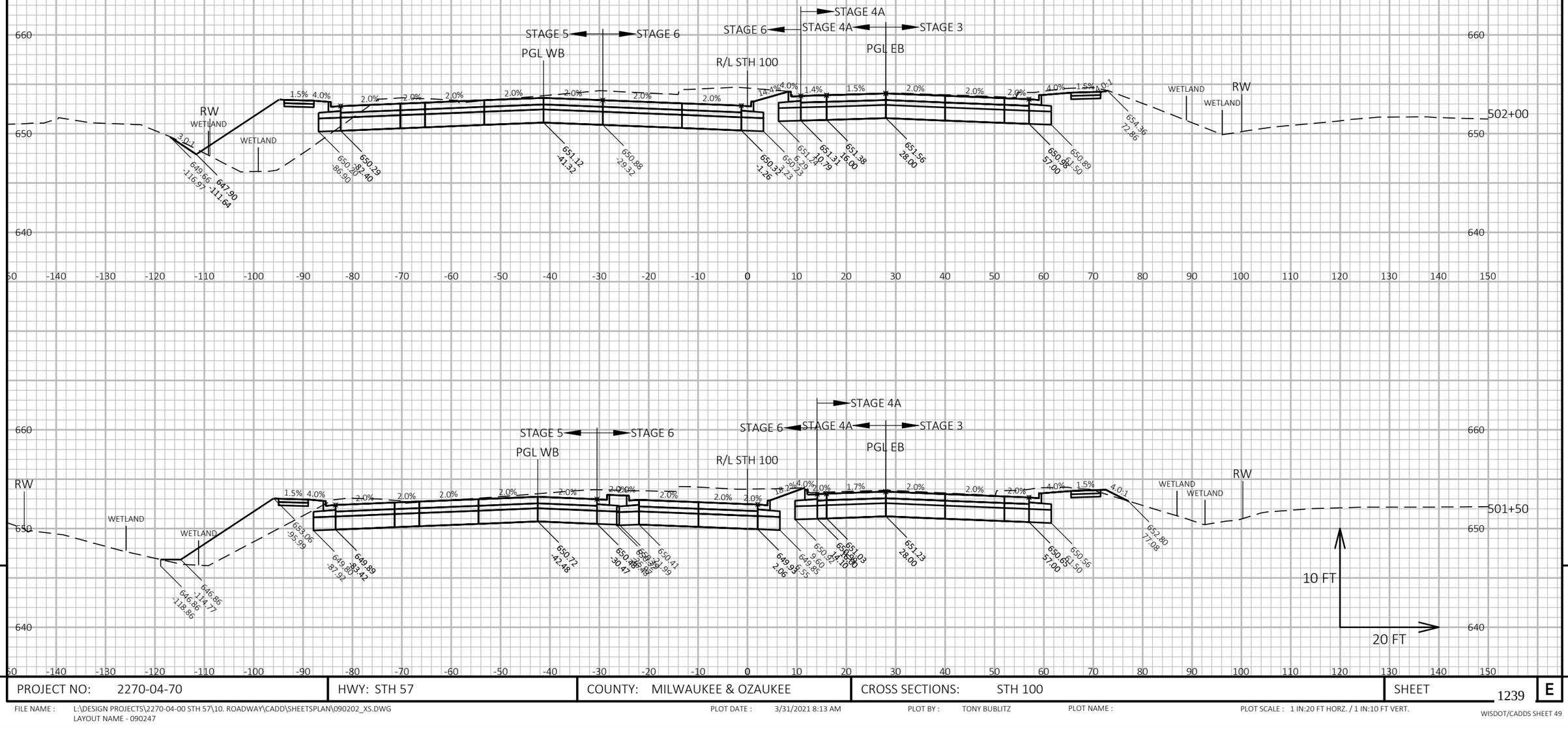


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LAYOUT NAME - 090246

PLOT DATE : 3/31/2021 8:13 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

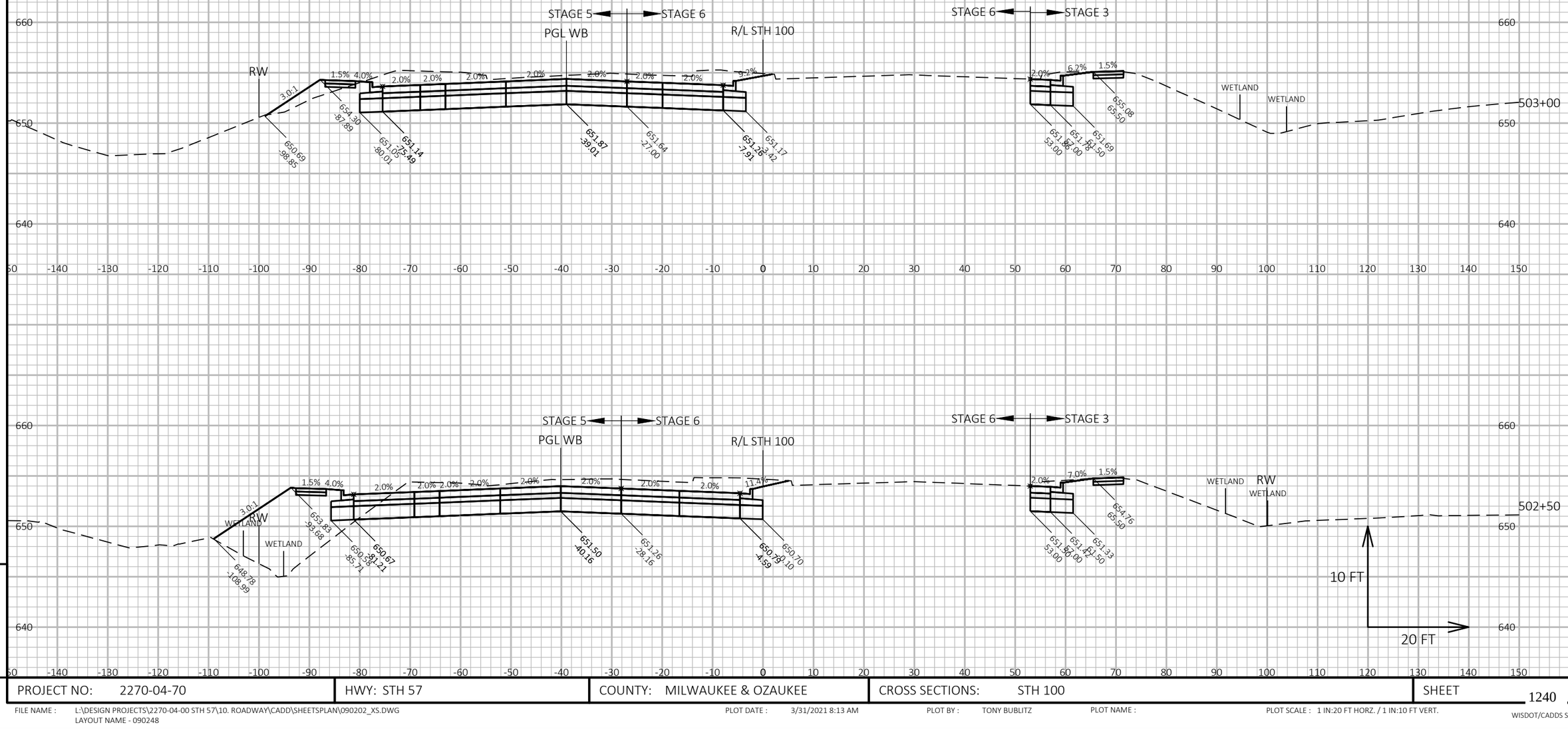


PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CROSS SECTIONS: STH 100	SHEET 1239	E

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LAYOUT NAME - 090247

PLOT DATE : 3/31/2021 8:13 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CROSS SECTIONS: STH 100	SHEET 1240	E

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LAYOUT NAME - 090248

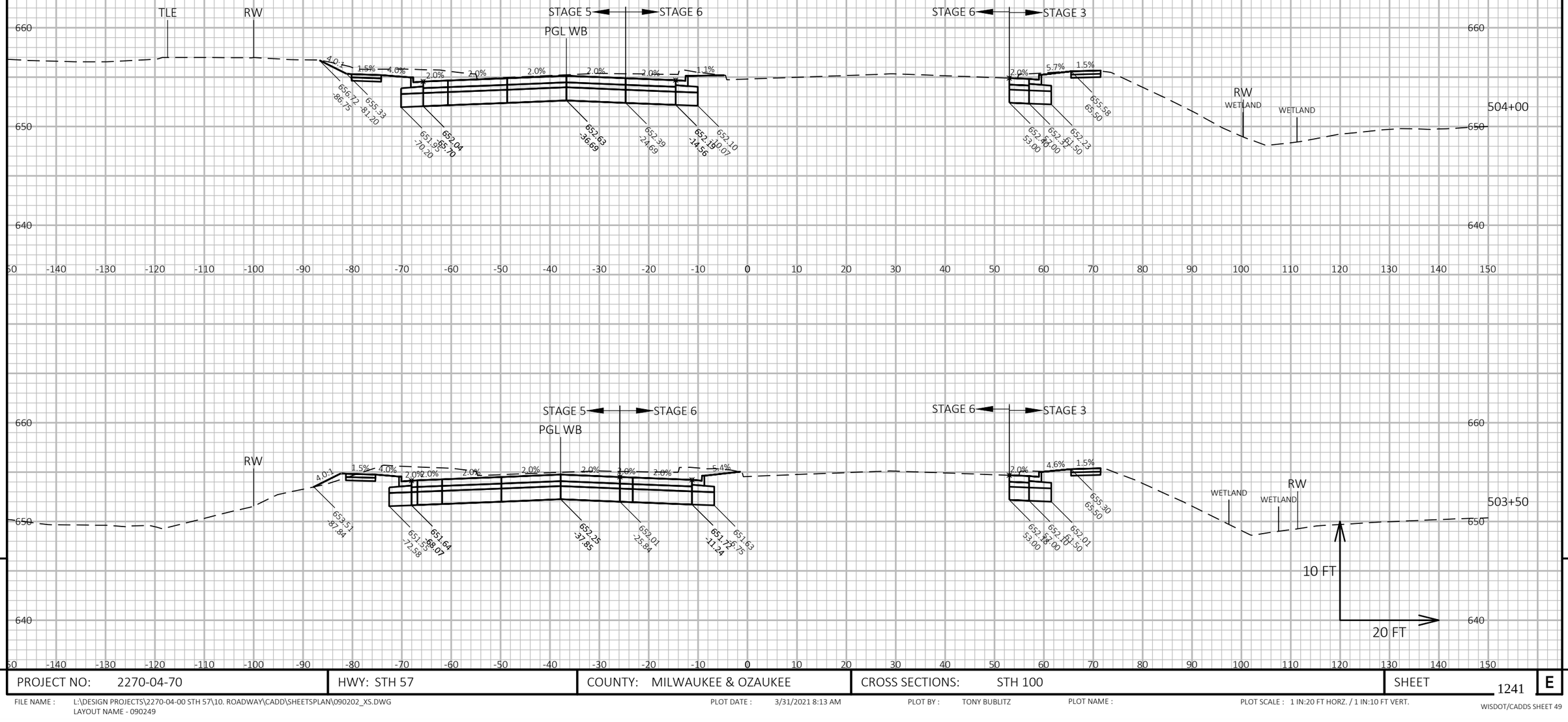
PLOT DATE : 3/31/2021 8:13 AM

PLOT BY : TONY BUBLITZ

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

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PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CROSS SECTIONS: STH 100	SHEET 1241	E

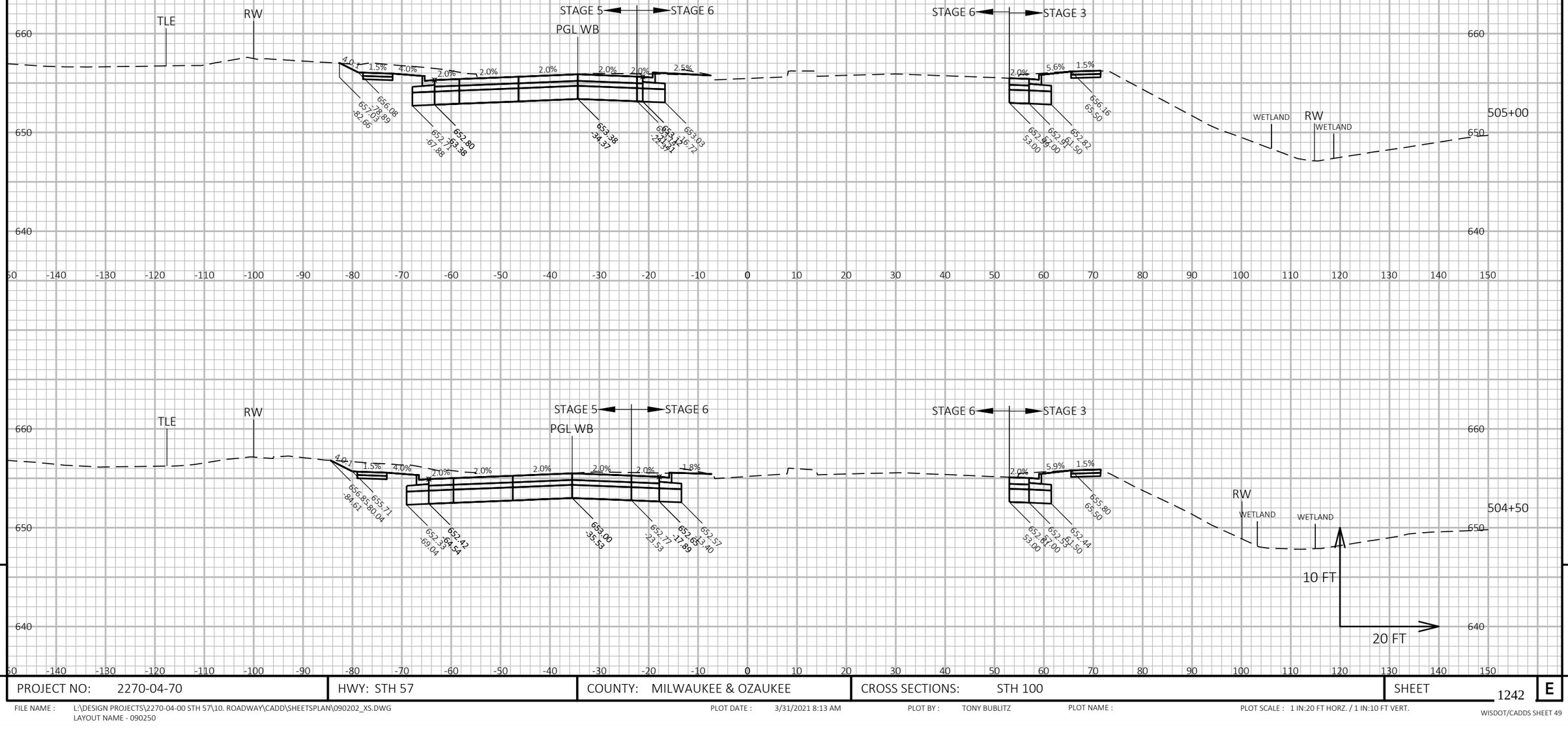
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PLOT DATE : 3/31/2021 8:13 AM

PLOT BY : TONY BUBLITZ

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



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PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CROSS SECTIONS: STH 100	SHEET 1242 E

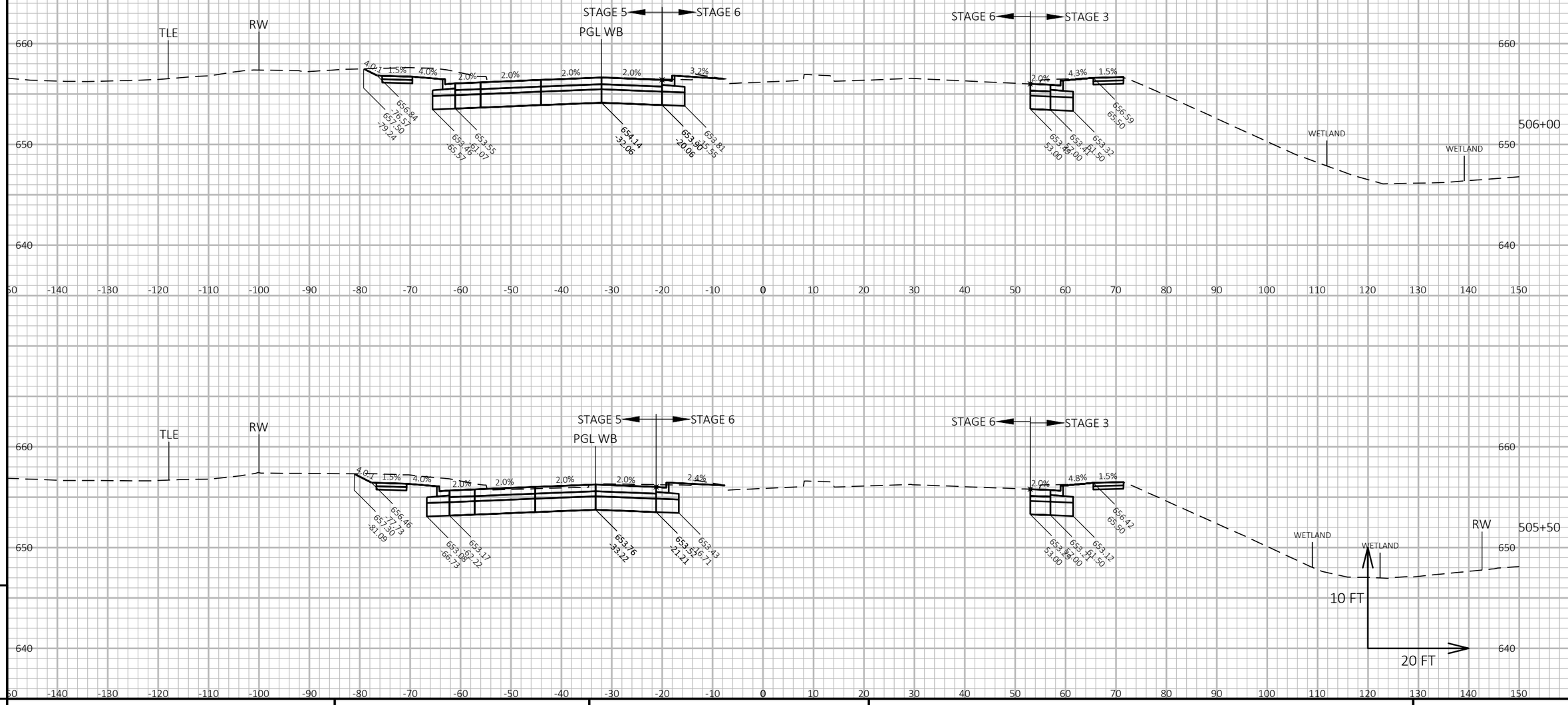
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LAYOUT NAME - 090250

PLOT DATE : 3/31/2021 8:13 AM

PLOT BY : TONY BUBLITZ

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



9

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PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CROSS SECTIONS: STH 100	SHEET 1243	E

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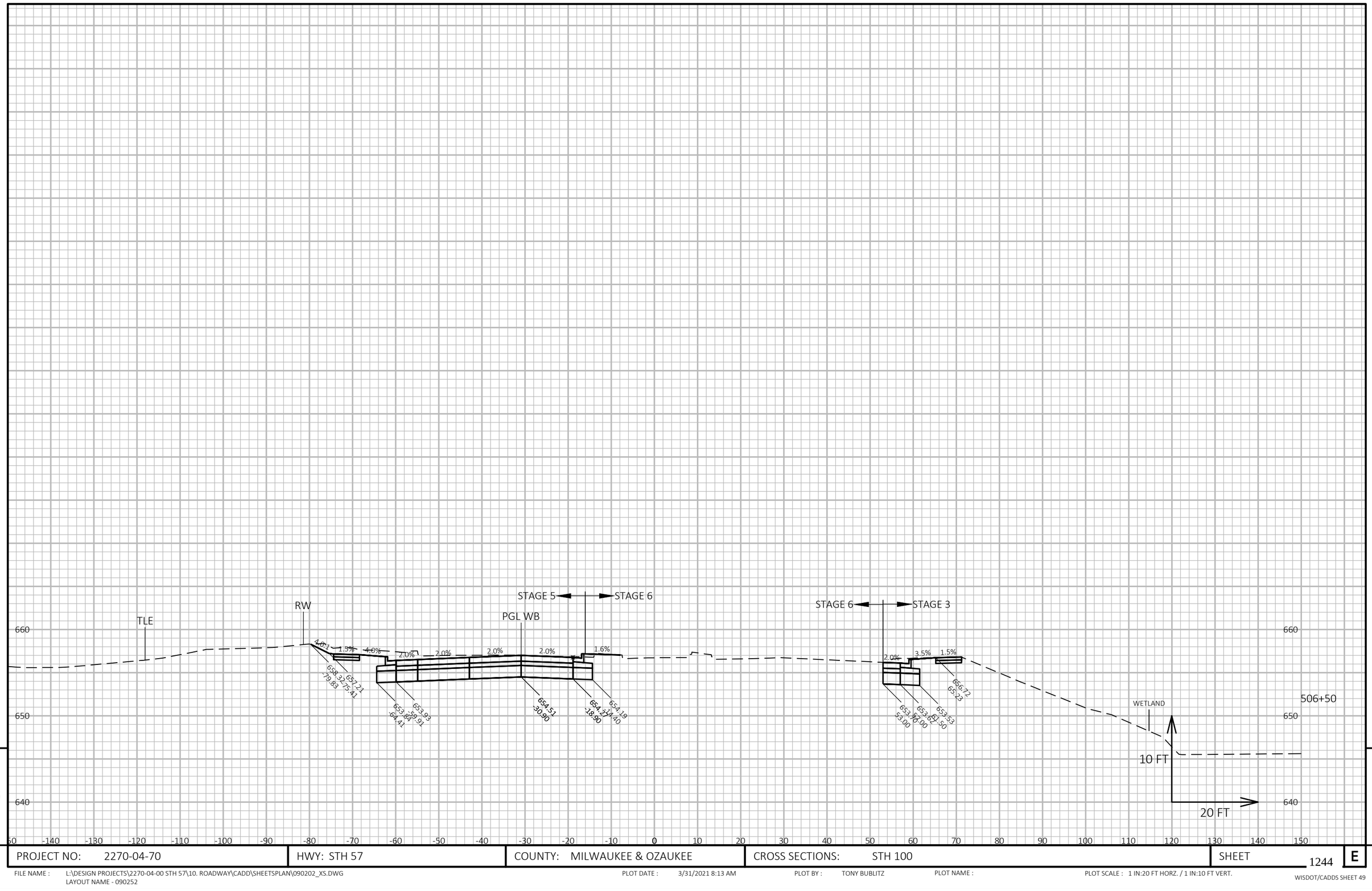
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PLOT BY : TONY BUBLITZ

PLOT NAME :

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WISDOT/CADDS SHEET 49



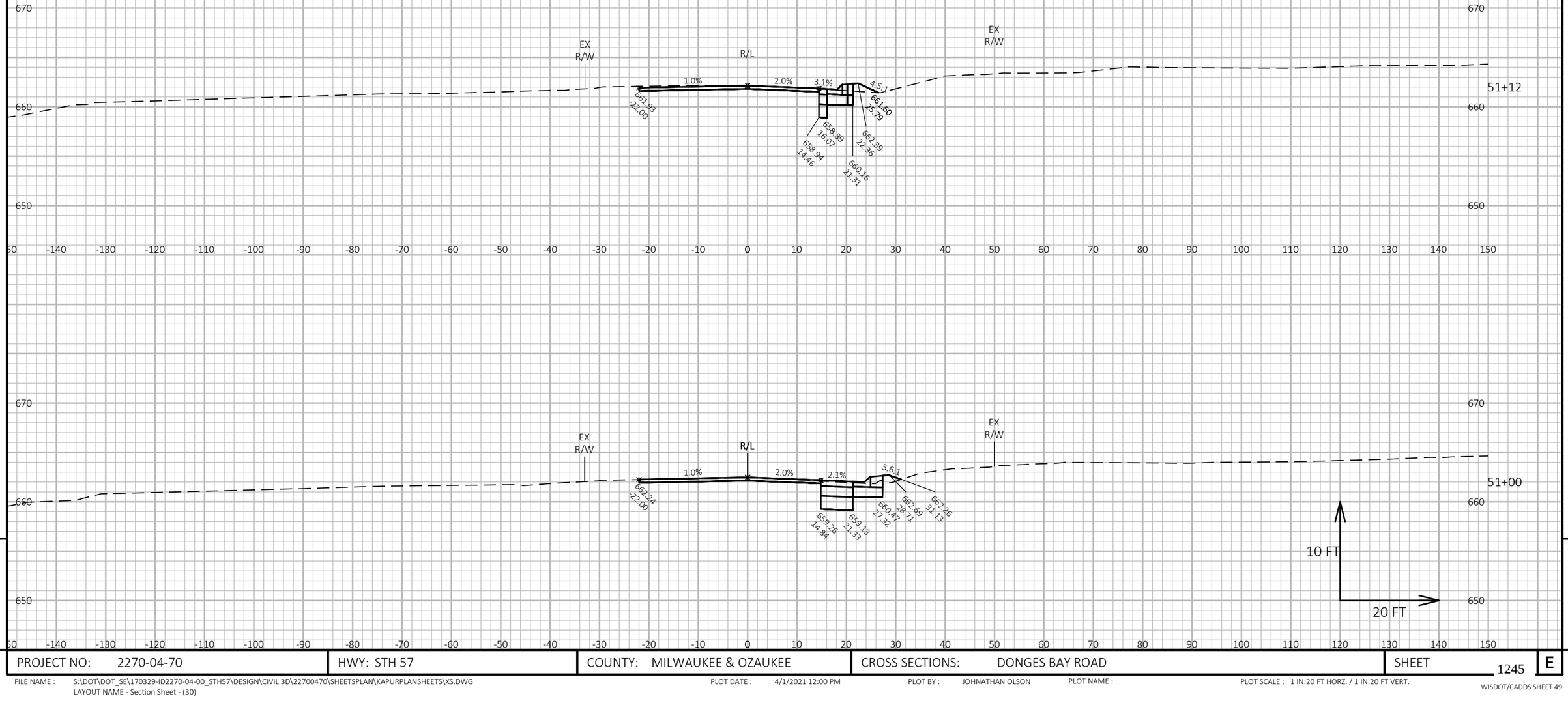
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PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CROSS SECTIONS: STH 100	SHEET 1244	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - 090252

PLOT DATE : 3/31/2021 8:13 AM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



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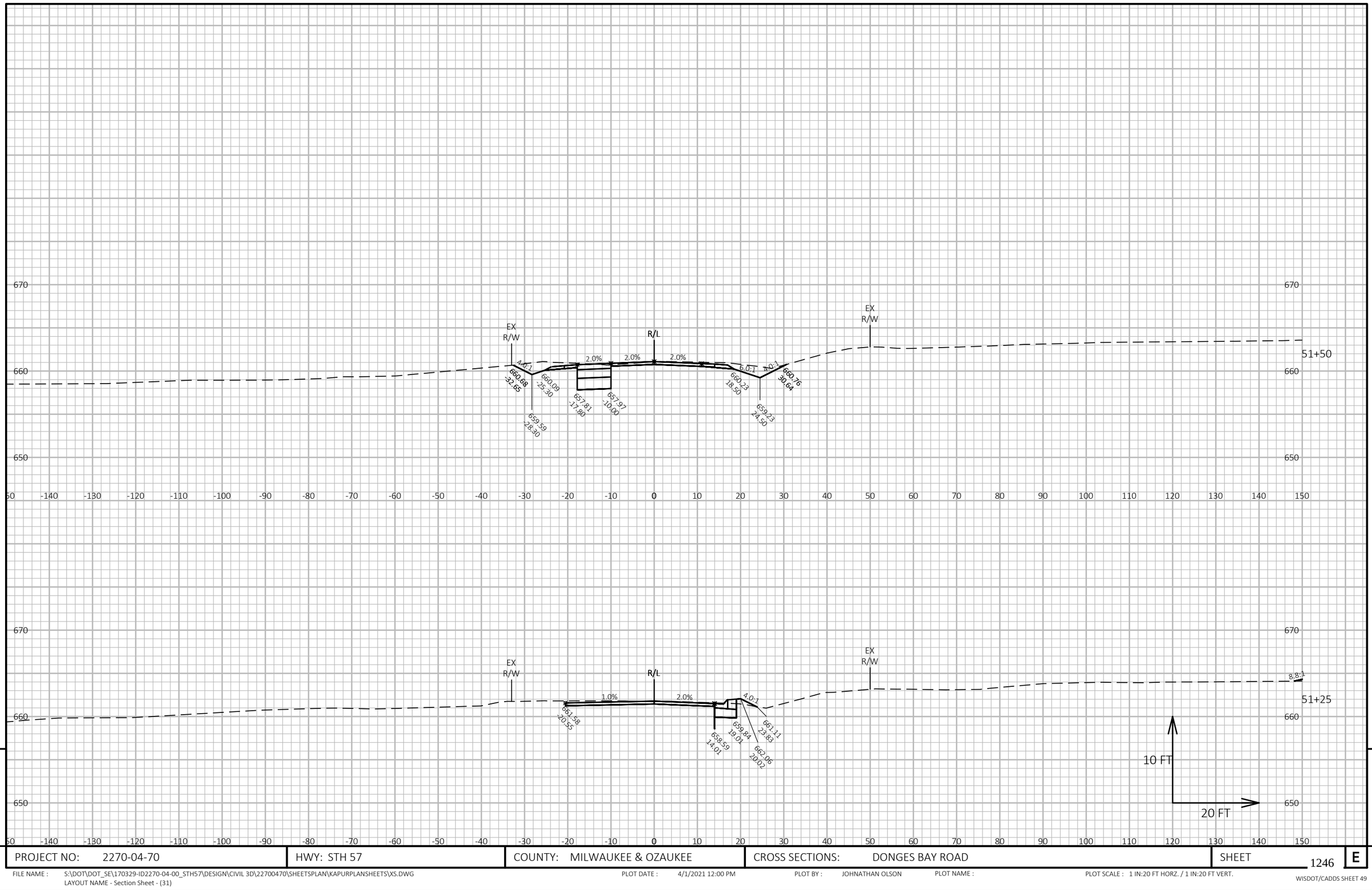
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FILE NAME : S:\DOT\DOT_SE\170329-ID2270-04-00_STH57\DESIGN\CIVIL 3D\22700470\SHEETSPLAN\KAPURPLANSHEETS\XS.DWG
LAYOUT NAME - Section Sheet - (30)

PLOT DATE : 4/1/2021 12:00 PM PLOT BY : JOHNATHAN OLSON PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49



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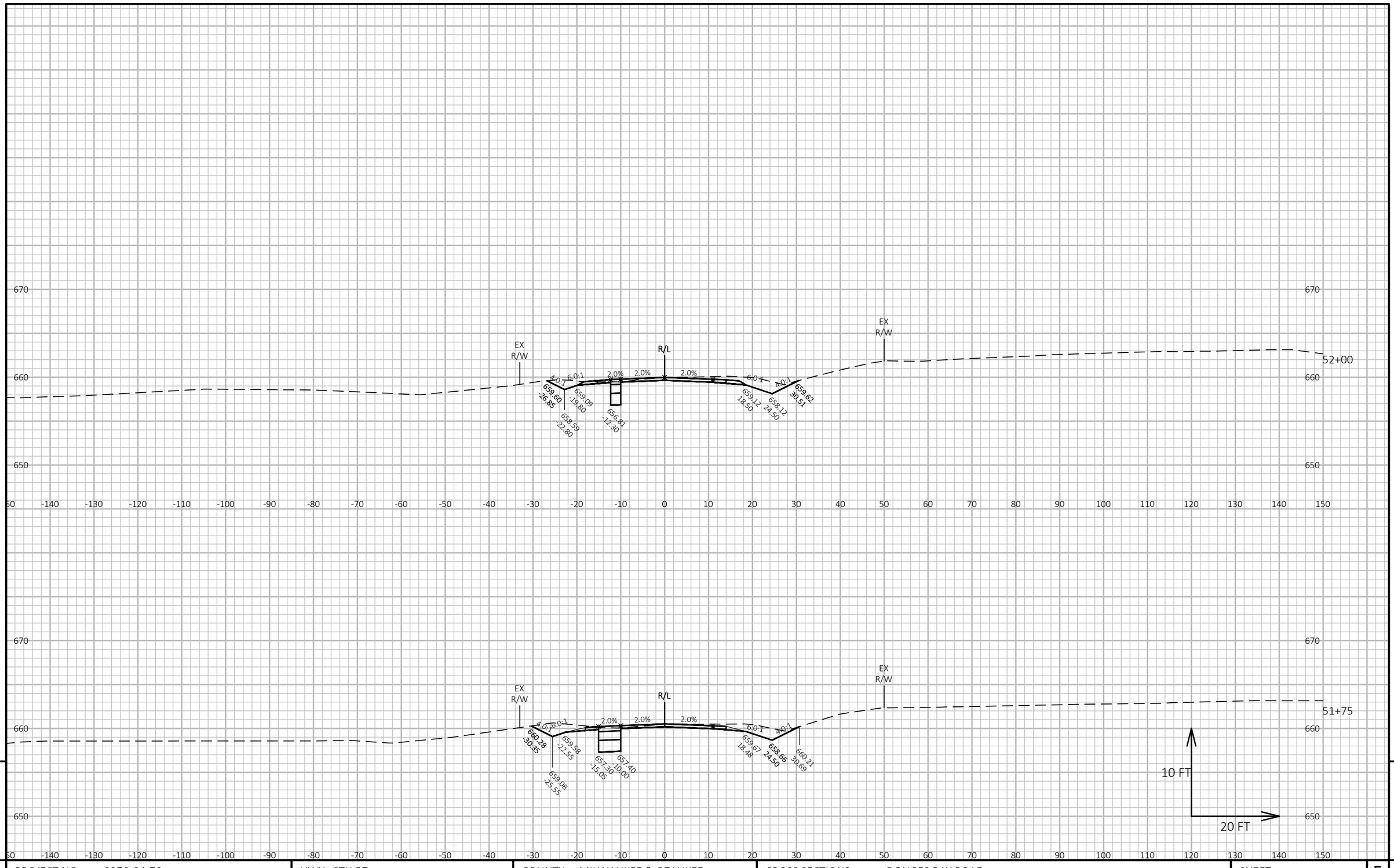
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PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CROSS SECTIONS: DONGES BAY ROAD	SHEET 1246	E

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LAYOUT NAME - Section Sheet - (31)

PLOT DATE : 4/1/2021 12:00 PM PLOT BY : JOHNATHAN OLSON PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

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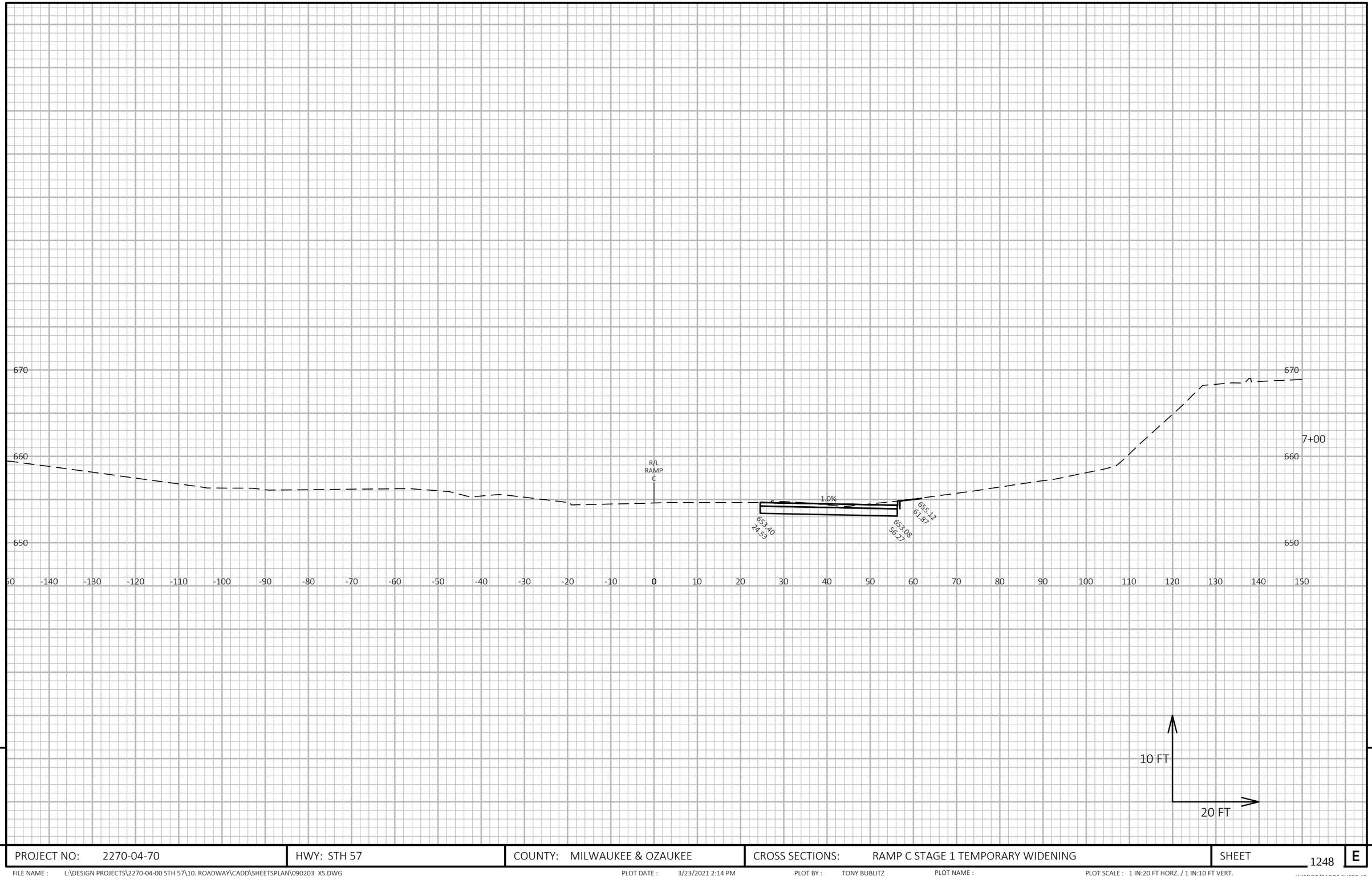
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LAYOUT NAME - Section Sheet - (32)

PLOT DATE : 4/1/2021 12:00 PM PLOT BY : JOHNATHAN OLSON PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:20 FT VERT.

WISDOT/CADDS SHEET 49

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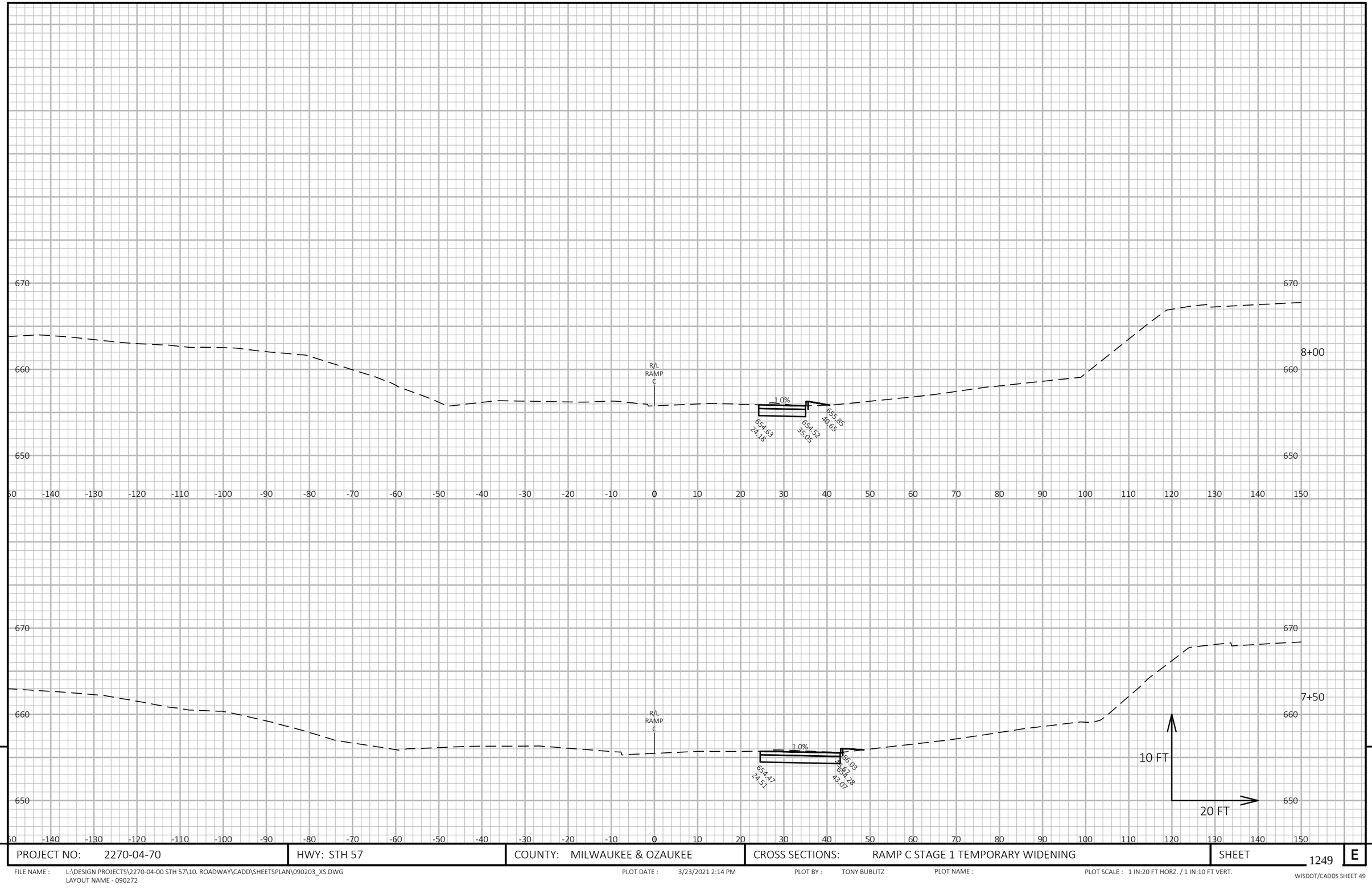
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PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CROSS SECTIONS: RAMP C STAGE 1 TEMPORARY WIDENING	SHEET 1248	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\090203_XS.DWG
LAYOUT NAME - 090271

PLOT DATE : 3/23/2021 2:14 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

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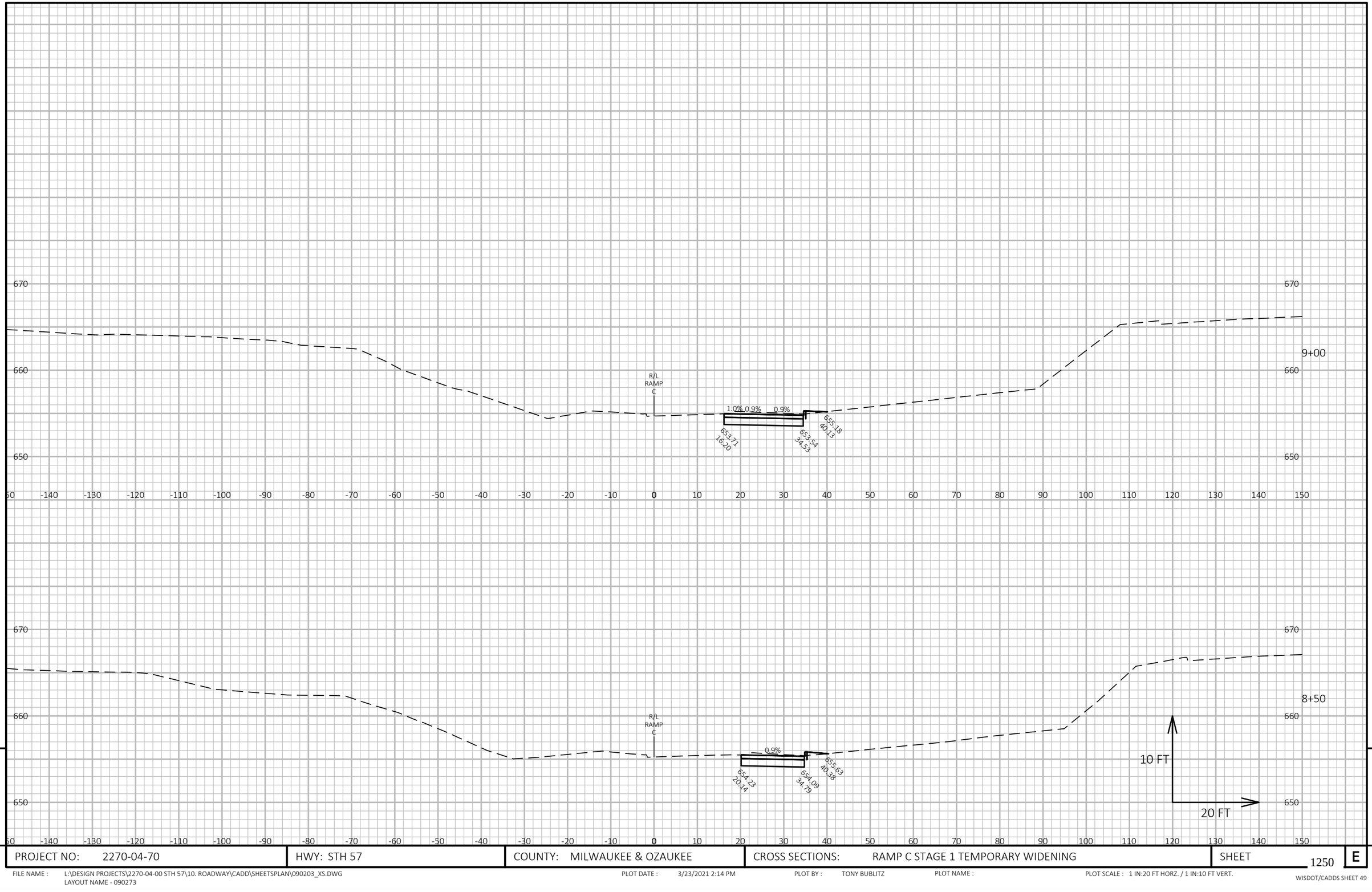
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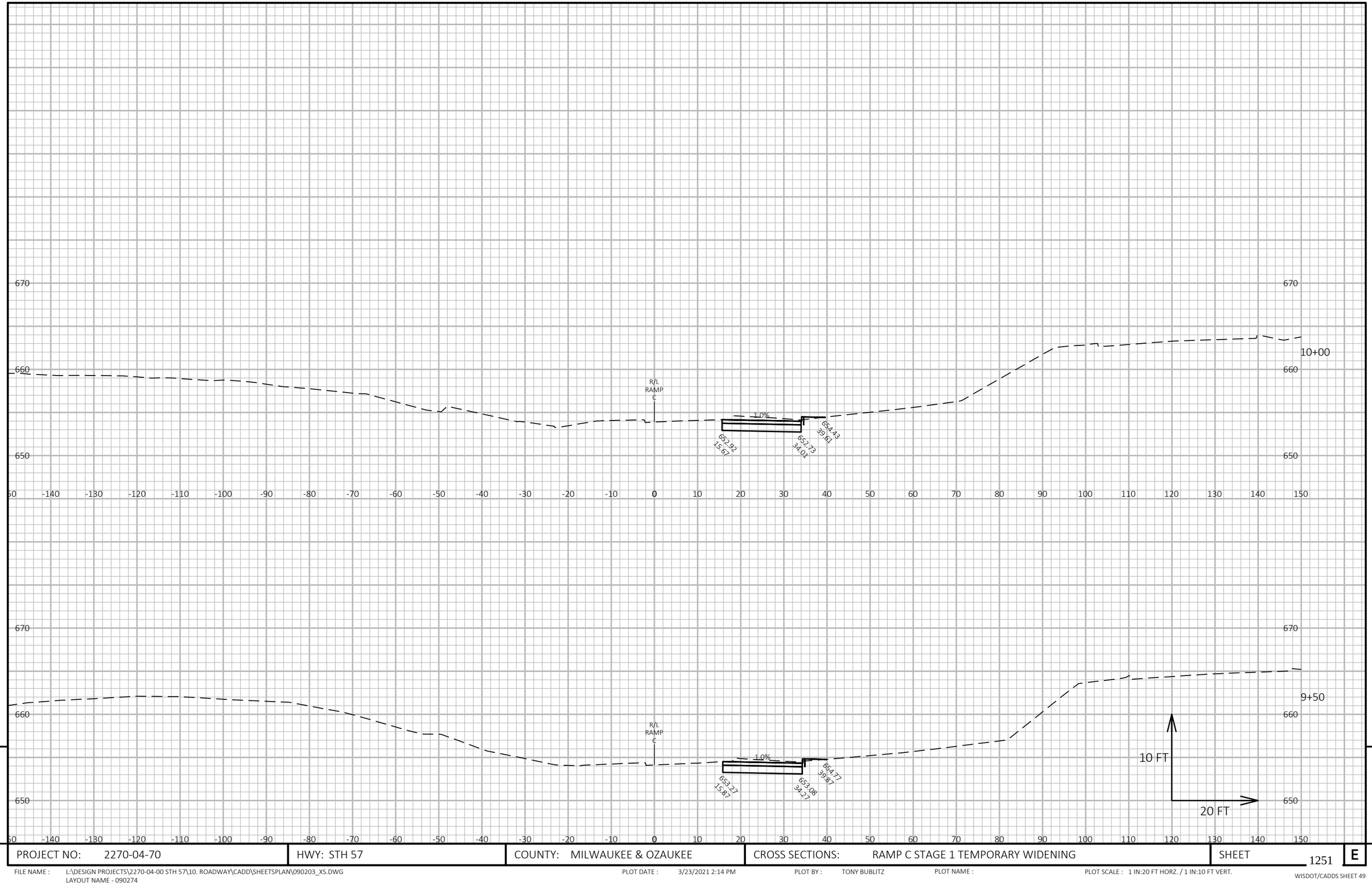
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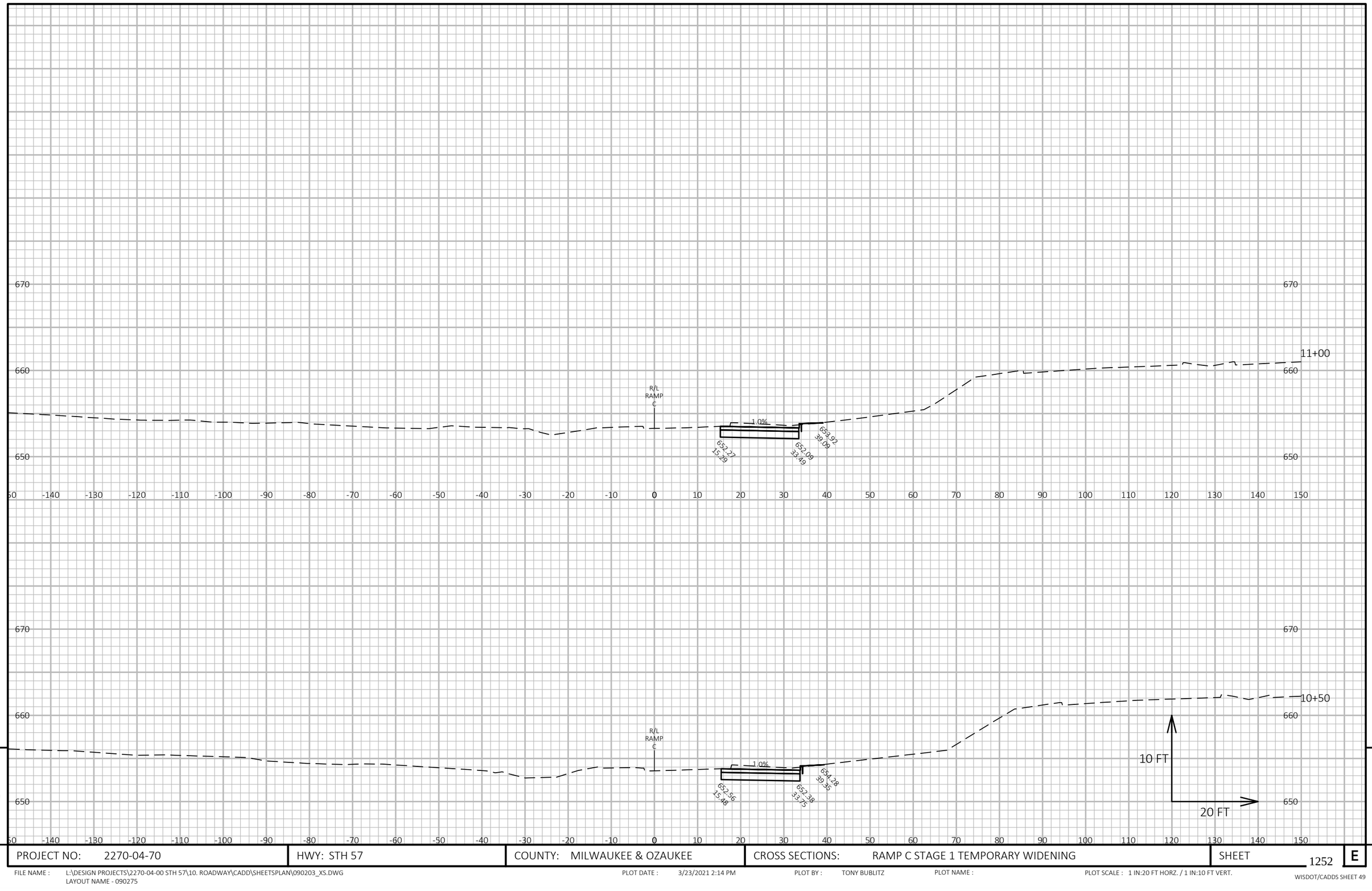


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PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CROSS SECTIONS: RAMP C STAGE 1 TEMPORARY WIDENING	SHEET 1251	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\090203_XS.DWG
LAYOUT NAME - 090274

PLOT DATE : 3/23/2021 2:14 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



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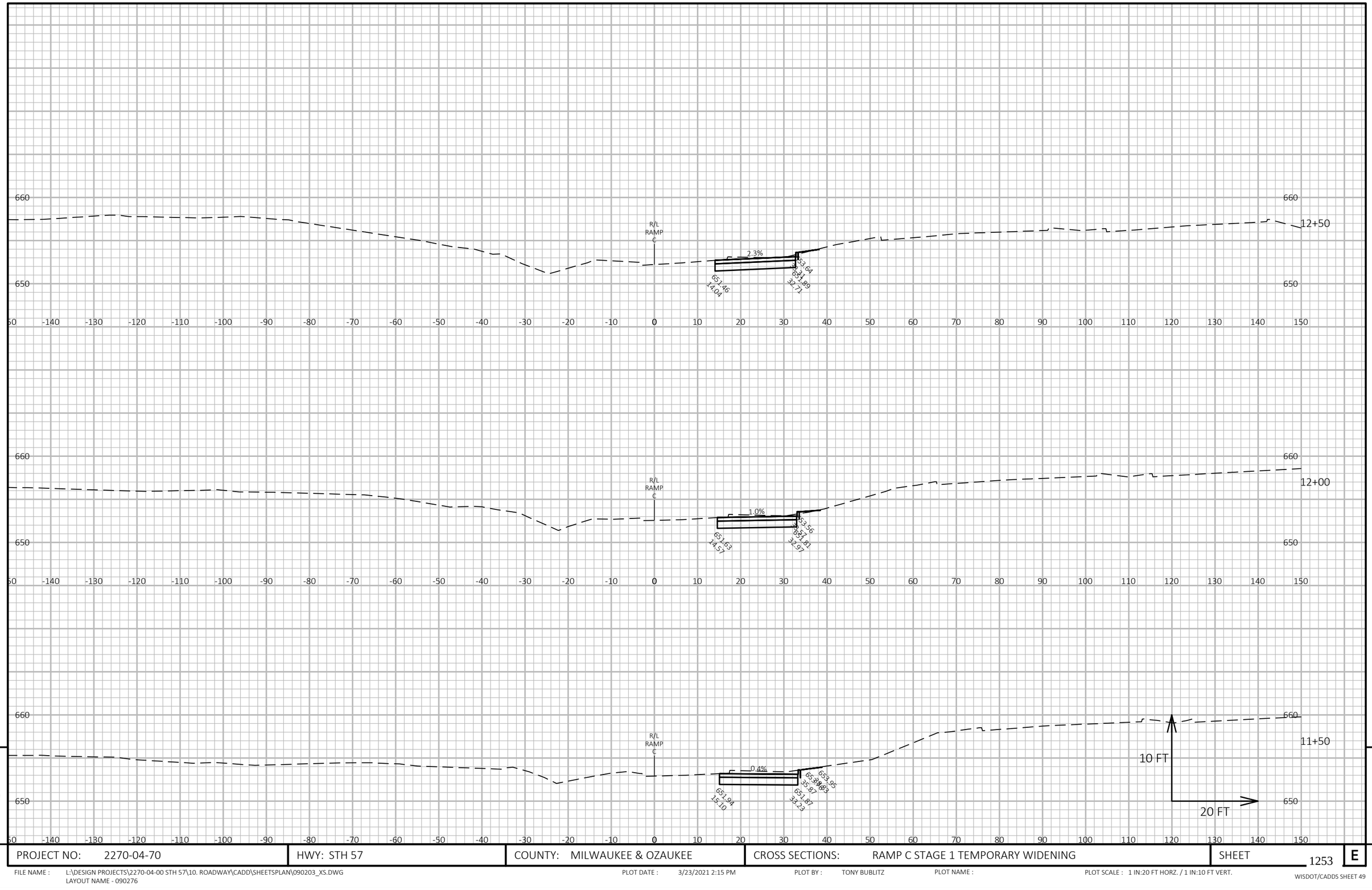
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FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\090203_XS.DWG
LAYOUT NAME - 090275

PLOT DATE : 3/23/2021 2:14 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



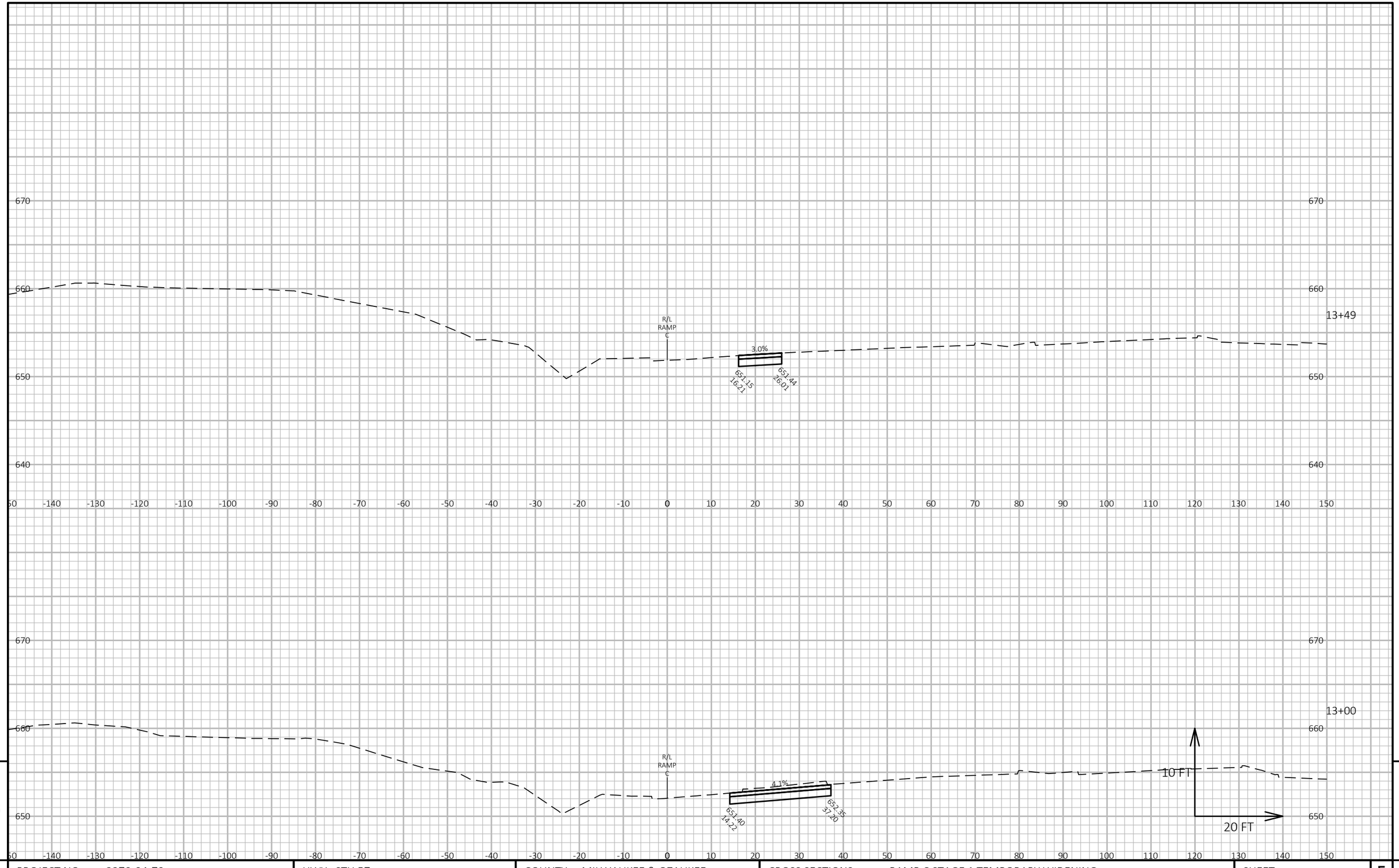
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FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\090203_XS.DWG
LAYOUT NAME - 090276

PLOT DATE : 3/23/2021 2:15 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



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PROJECT NO: 2270-04-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	CROSS SECTIONS: RAMP C STAGE 1 TEMPORARY WIDENING	SHEET 1254	E

FILE NAME : L:\DESIGN PROJECTS\2270-04-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\090203_XS.DWG
LAYOUT NAME - 090277

PLOT DATE : 3/23/2021 2:15 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

Notes

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

http://www.dot.wisconsin.gov

WKE SEPTEMBER 2021

PROJECT ID: 2565-07-70
WITH: 2270-04-70, 2150-00-72

COUNTY: MILWAUKEE

24

ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details
Section No.	3	Estimate of Quantities
Section No.	3	Miscellaneous Quantities
Section No.	4	Right of Way Plat
Section No.	5	Plan and Profile
Section No.	6	Standard Detail Drawings
Section No.	7	Sign Plates
Section No.	8	Structure Plans
Section No.	9	Computer Earthwork Data
Section No.	9	Cross Sections

TOTAL SHEETS = 246



N

DESIGN DESIGNATION

A.A.D.T.	2021	=	22,800
A.A.D.T.	2041	=	25,000
D.H.V.		=	- -
D.D.		=	- -
T.		=	6.29%
DESIGN SPEED		=	25/45
ESALS		=	4,100,000

CONVENTIONAL SYMBOLS

PLAN
- CORPORATE LIMITS
- PROPERTY LINE
- LOT LINE
- LIMITED HIGHWAY EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- SLOPE INTERCEPT
- REFERENCE LINE (300'EB')
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

PROFILE
- GRADE LINE
- ORIGINAL GROUND
- MARSH OR ROCK PROFILE (To be noted as such) (ROCK)
- SPECIAL DITCH (LABEL)
- GRADE ELEVATION (95.36)
- CULVERT (Profile View)

UTILITIES
- ELECTRIC (E)
- FIBER OPTIC (FO)
- GAS (G)
- SANITARY SEWER (SAN)
- STORM SEWER (SS)
- TELEPHONE (T)
- WATER (W)
- UTILITY PEDESTAL
- POWER POLE
- TELEPHONE POLE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

GREEN BAY ROAD, VILLAGE OF BROWN DEER

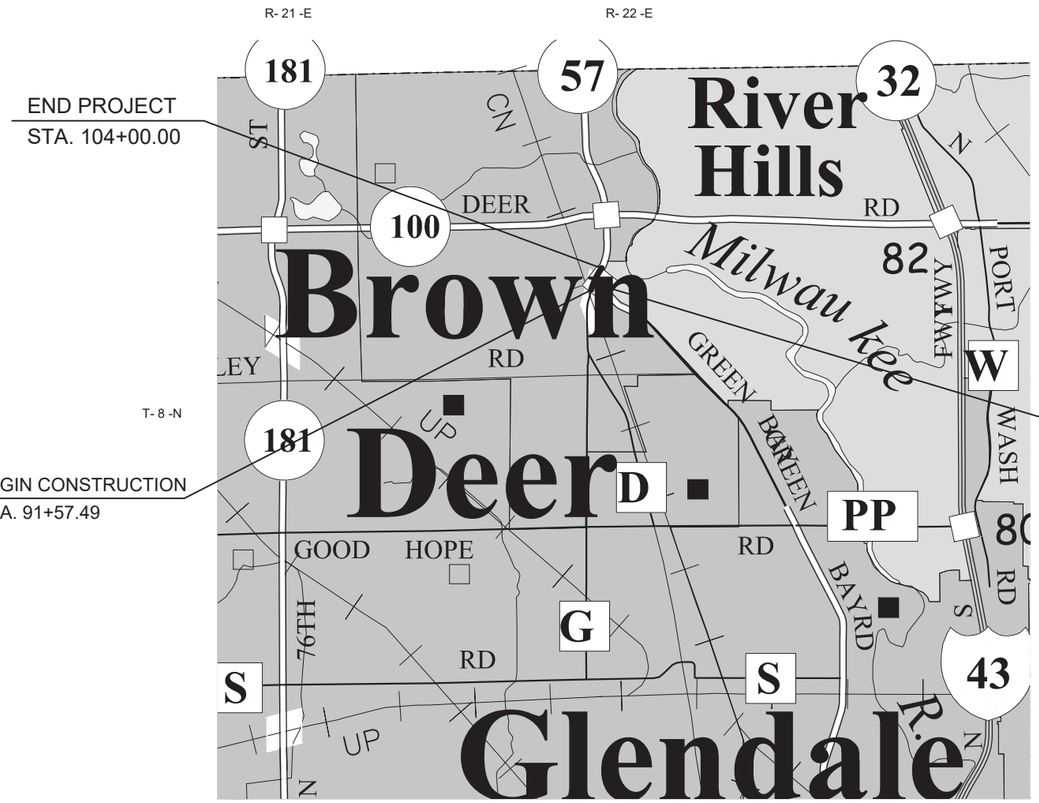
TEUTONIA AVENUE INTERSECTION

STH 57

MILWAUKEE COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
2565-07-70	WISC 2021442	1
2270-04-70	WISC 2021441	1
2150-00-72	———	—

STATE PROJECT NUMBER
2565-07-70



LAYOUT
SCALE 0 1.0 MI

TOTAL NET LENGTH OF CENTERLINE = 0.219 MILES

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, MILWAUKEE COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM, 88(2012).

ORIGINAL PLANS PREPARED BY
Lakeside ENGINEERS

WISCONSIN
REBECCA N JONARDI
E-45520
GREENDALE WI
PROFESSIONAL ENGINEER

4/28/21 (Date) Rebecca Jonardi (Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	DAAR ENGINEERING
Designer	LAKESIDE ENGINEERS
Project Manager	ALLEN GILBERTSON, PE
Regional Examiner	REGIONAL EXAMINER
Regional Supervisor	JANET CANNON, PE

APPROVED FOR THE DEPARTMENT

DATE 4/28/2021 Allen Gilbertson (Signature)

E

FILE NAME : L:\DESIGN PROJECTS\2565-07-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\010101_TI.DWG

PLOT DATE : 4/23/2021 10:36 AM PLOT BY : REBECCA JONARDI PLOT NAME :

2

ORDER OF SECTION 2 SHEETS

PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
PLAN DETAILS
REMOVALS
EROSION CONTROL
STORM SEWER
SIGNING
LIGHTING
PAVEMENT MARKING
TRAFFIC CONTROL
ALIGNMENT

ABBREVIATIONS

ADT	AVERAGE DAILY TRAFFIC
AGG	AGGREGATE
BAD	BASE AGGREGATE DENSE
BM	BENCH MARK
CB	CATCH BASIN
C&G	CURB AND GUTTER
C-C	CENTER TO CENTER
CONC	CONCRETE
CSD	CONCRETE SURFACE DRAIN
CTR	CENTER
CWT	HUNDREDWEIGHT
CY	CUBIC YARD
D	DEGREE OF CURVE
Δ	DELTA
DD	DIRECTIONAL DISTRIBUTION
DHV	DESIGN HOUR VOLUME
DIA	DIAMETER
E	EAST
EB	EASTBOUND
EL OR ELEV	ELEVATION
EXIST	EXISTING
FS	FULL SUPERELEVATION
FT	FOOT
HE	HIGHWAY EASEMENT
HMA	HOT MIX ASPHALT
INCID	INCIDENTAL
INL	INLET
L	LENGTH OF CURVE
LF	LINEAR FOOT
LONG	LONGITUDINAL
LT	LEFT
MH	MANHOLE
MIN	MINIMUM
ML OR M/L	MATCH LINE
N	NORTH
NB	NORTHBOUND
NC	NORMAL CROWN
NTS	NOT TO SCALE
PAVT	PAVEMENT
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PI	POINT OF INTERSECTION
PLE	PERMANENT LIMITED EASEMENT
PT	POINT OF TANGENCY
PVC	POINT OF VERTICAL CURVATURE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
R	RADIUS
RCPSS	REINFORCED CONCRETE PIPE STORM SEWER
REQD	REQUIRED
R/L	REFERENCE LINE
RO	RUN OFF LENGTH
RT	RIGHT
RW OR R/W	RIGHT-OF-WAY
S	SOUTH
SB	SOUTHBOUND
SDD	STANDARD DETAIL DRAWING
SHT	SHEET
SI	SLOPE INTERCEPT
SS	STORM SEWER
STA	STATION
SY	SQUARE YARD
SYM	SYMMETRICAL
T	TANGENT LENGTH
TEMP	TEMPORARY
TYP	TYPICAL
V	VELOCITY OR DESIGN SPEED
VAR	VARIABLE OR VARIES
W	WEST
WB	WESTBOUND
YD	YARD

UTILITIES

AT&T Wisconsin - Communication Line
Jeff Oldenburg
2005 Pewaukee Rd
Waukesha, WI 53188-2443
(262) 896-7522
jo2376@att.com

ATC Management, Inc. - Electricity-transmission
Chris Dailey
P.O. Box 47
Waukesha, WI 53187
(262) 506-6884
cdailey@atcllc.com

Milwaukee Metropolitan Sewerage District - Sewer
Micki Klapp-Sullivan
260 W Seeboth St
Milwaukee, WI 53204-1446
(414) 225-2178
mklappasullivan@mmsd.com

Spectrum - Communication Line
Beau Abuya
1320 N Dr Martin Luther King Jr Dr
Milwaukee, WI 53212-4002
(414) 758-9241
beau.abuya@charter.com

Village of Brown Deer – Sanitary Sewer
Matthew Maederer
8950 N Arbon Drive
Brown Deer, WI 53223-2496
(414) 357-0120
mmaeder@browndeerwi.org

Village of Brown Deer - Water
Thomas Nennig
8950 N Arbon Drive
Brown Deer, WI 53223-2496
(414) 559-6883
Tom.nennig@citywaterusa.com

We Energies - Electric
Jake Christensen
W140 N9100 N Lilly Rd
Menomonee Falls, WI 53051
(262) 502-6819
jacob.christensen@we-energies.com

We Energies - Gas/Petroleum
Patrick Fritz
500 S 116th St
West Allis, WI 53214
(414) 944-5558
patrick.fritz@we-energies.com

LOCAL AGENCIES

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Wisconsin Department of Natural Resources
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David Locher
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DESIGNER

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Chris Quesnell
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Wauwatosa, WI 53226
(262) 789-8200
Chris.Quesnell@lakesideengineers.com

DIGGERS HOTLINE
Dial 811 or (800)242-8511
www.DiggersHotline.com

GENERAL NOTES

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT AREAS WITHIN THE FINISHED SHOULDER POINTS, SHALL BE FERTILIZED, SEEDED, AND MULCHED.

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. THE CONTRACTOR IS FULLY RESPONSIBLE FOR LOCATING AND AVOIDING ALL UNDERGROUND AND ABOVE GROUND STRUCTURES AND FACILITIES.

STATIONING, DISTANCES, AND OFFSETS FOR SIGNS SHOWN ON THE PLANS ARE APPROXIMATE AND THE FINAL LOCATION OF THE SIGNS ARE TO BE DETERMINED BY THE ENGINEER.

TRAFFIC CONTROL DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

WETLAND, WATERWAYS, AND OTHER ENVIRONMENTALLY SENSITIVE AREAS SHALL BE PROTECTED AT ALL TIMES. DO NOT STORE EQUIPMENT OR MATERIAL NEAR THESE SITES UNLESS APPROVED BY THE ENGINEER.

REFER TO THE EROSION CONTROL SPECIAL PROVISIONS FOR REQUIREMENTS.

NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.

ANY REINFORCEMENT LOCATED IN EXISTING CONCRETE PAVEMENT SHALL BE CONSIDERED INCIDENTAL TO THE REMOVING PAVEMENT ITEM, AND NO ADDITIONAL COMPENSATION WILL BE GRANTED.

NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY LOCAL MUNICIPAL UTILITY WHICH IS NOT A MEMBER OF THE DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.

WHEN THE QUANTITY OF BASE AGGREGATE IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS OF THE LAYER SHOWN ON THE PLAN IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

CURB HEIGHTS AT THE END OF CURB AND GUTTER SHALL BE TAPERED FROM 0 TO 4 INCHES OR 0 TO 6 INCHES IN 6 FEET, TO BE PAID AS CURB AND GUTTER.

CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE OF CURB AND GUTTER OR THEORETICAL FLANGE POINT OF INTEGRAL CURB AND GUTTER. CURB AND GUTTER RADII ARE MEASURED TO THE FACE OF CURB AND GUTTER.

BROKEN CONCRETE CONTAINING RE-BAR SHALL NOT BE USED AS RIPRAP MEDIUM.

FERTILIZER SHALL NOT BE USED WITHIN 100' OF NAVIGABLE WATERWAYS OR WETLANDS.

WHEN DEFINING THE PAVEMENT STRUCTURE, THE BOTTOM OF THE BASE AGGREGATE DENSE IS CONSIDERED THE SUBGRADE LINE. THE SELECT CRUSHED MATERIAL LAYER IS A SUBGRADE IMPROVEMENT.

CONTACT THE PROJECT ENGINEER AND THE SOUTHEASTERN WISCONSIN REGIONAL PLANNING COMMISSION (SEWRPC) AT LEAST TWO WEEKS PRIOR TO WORK NEAR ANY PUBLIC SURVEY MONUMENT.

SAW CUTS IN EXISTING PAVEMENT AND SIDEWALKS SHALL BE TO NEAT STRAIGHT LINES. EDGES OF SAW CUT EDGES DAMAGED DURING CONSTRUCTION SHALL BE RECUT PRIOR TO ACCEPTANCE FOR PAVING.

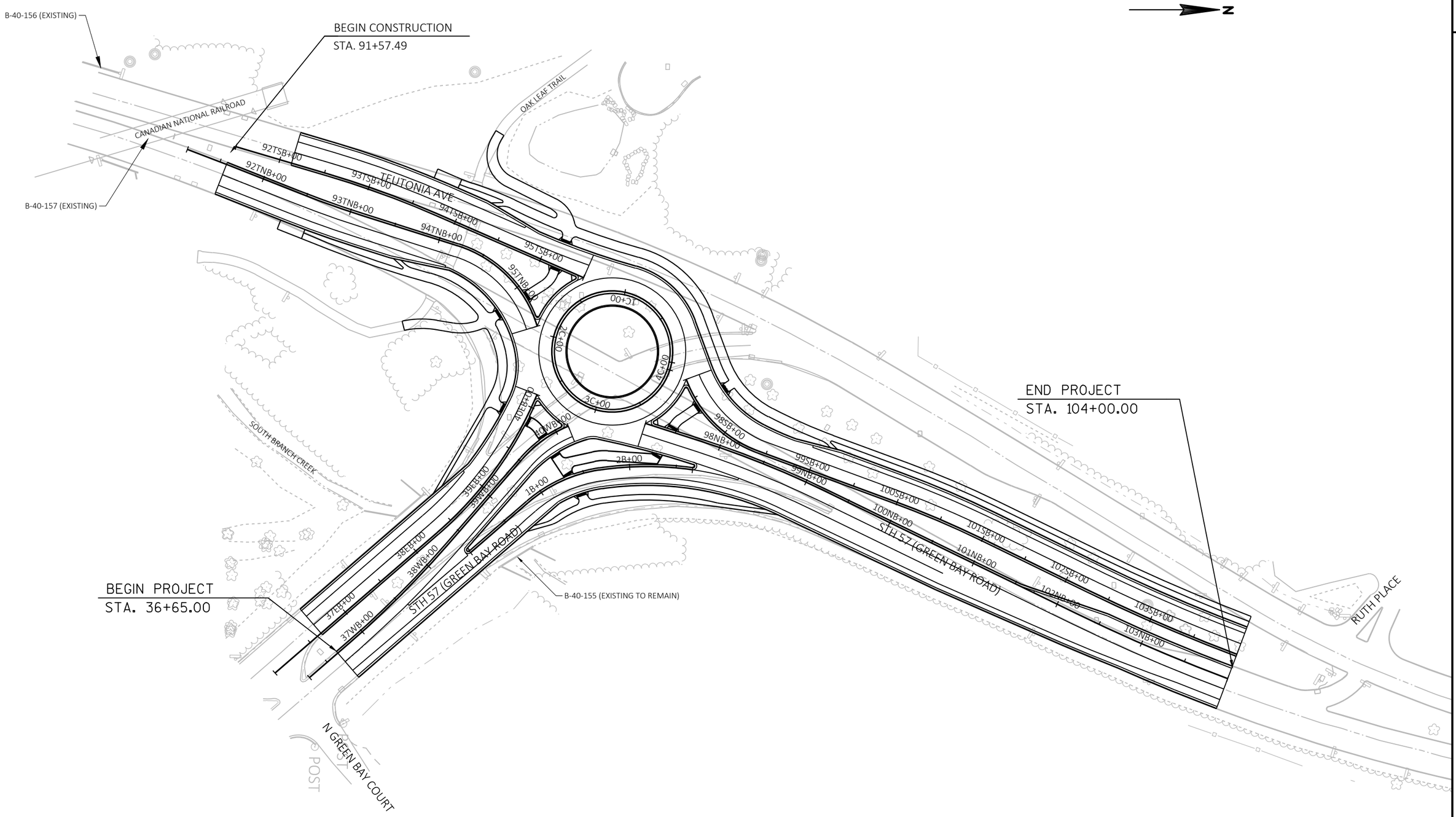
VERIFY EXISTING PAVEMENT ELEVATIONS AT ALL TIE-INS TO EXISTING PAVEMENT PRIOR TO CONSTRUCTION. IF A DISCREPANCY IS FOUND BETWEEN PROPOSED PLAN ELEVATIONS AND EXISTING PAVEMENT ELEVATIONS, CONTRACTOR IS TO NOTIFY ENGINEER.

THERE ARE NO RUMBLE STRIPS ALLOWED IN MILWAUKEE COUNTY. DIAGONAL PAVEMENT MARKING WILL BE USED ON SHOULDERS.

THE EXACT LOCATION OF EXCAVATION BELOW SUBGRADE (EBS) WILL BE DETERMINED BY THE ENGINEER.

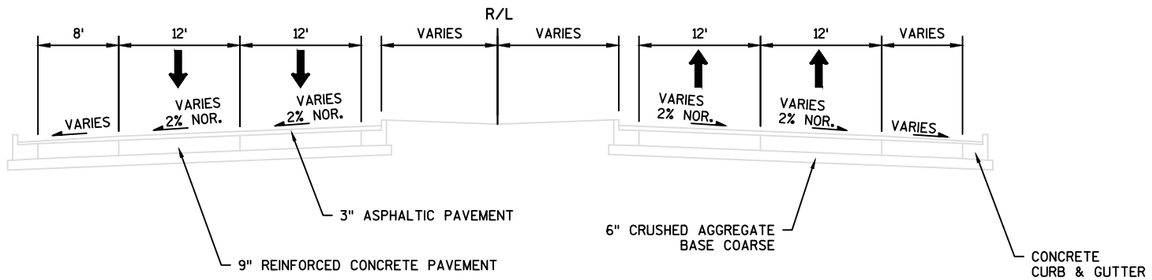
ALL PRIVATE EXISTING UTILITIES ARE TO BE ADJUSTED BY THE UTILITIES CONCERNED.

2



PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	PROJECT OVERVIEW	SHEET 4	E

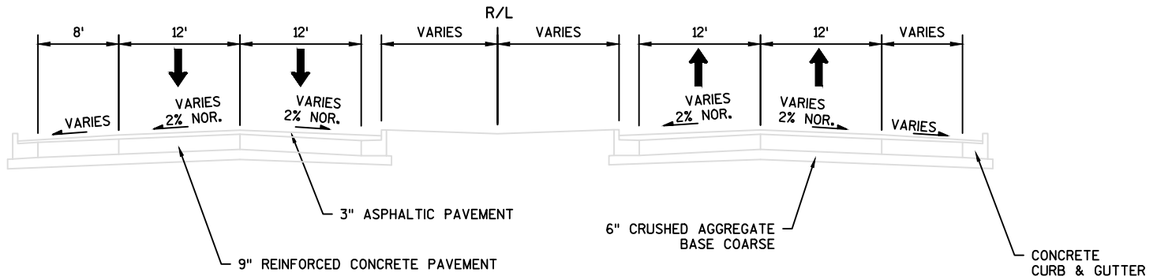
FILE NAME : L:\DESIGN PROJECTS\2565-07-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\020201_PO.DWG
LAYOUT NAME - 020201
PLOT DATE : 3/22/2021 12:29 PM
PLOT BY : REBECCA JONARDI
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42



TYPICAL EXISTING SECTION

STH 57

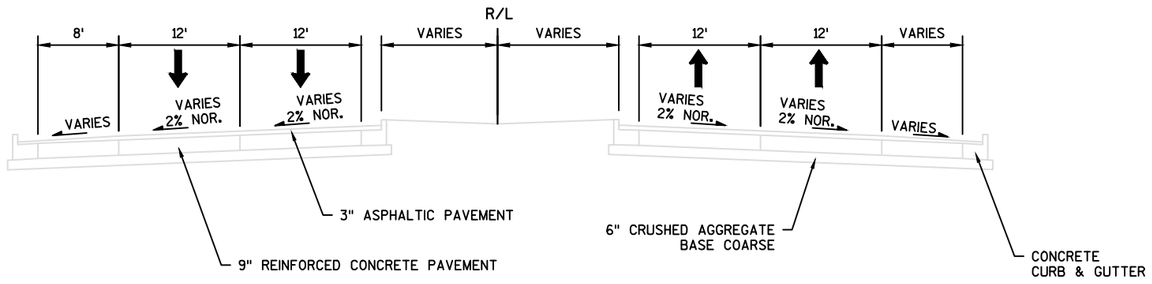
STA 36+65 TO STA 41+00



TYPICAL EXISTING SECTION

STH 57

STA 96+50 TO STA 104+00

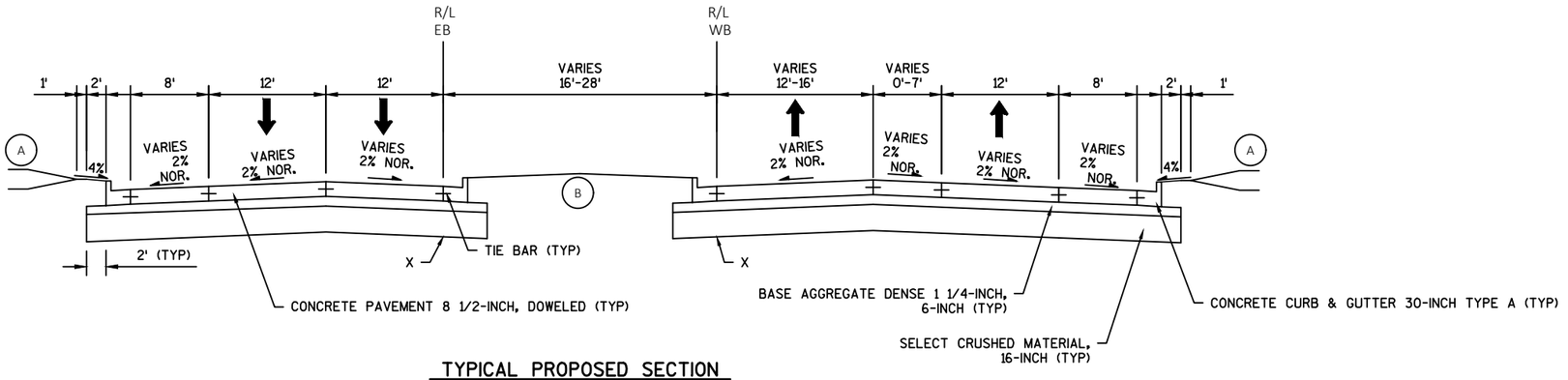


TYPICAL EXISTING SECTION

TEUTONIA AVENUE

STA 91+90 TO STA 96+50

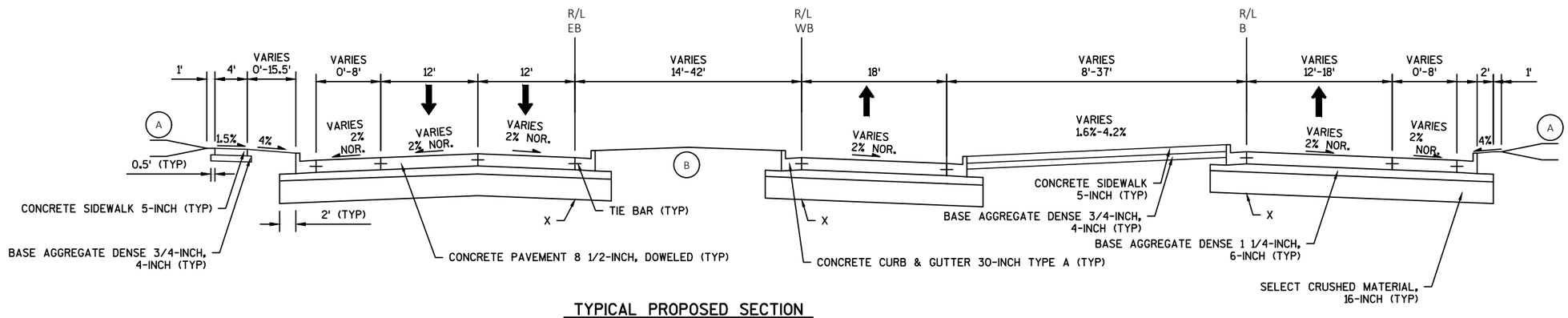
PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	TYPICAL SECTIONS	SHEET 5	E



TYPICAL PROPOSED SECTION

STH 57

STA 36+25 TO STA 38+40



TYPICAL PROPOSED SECTION

STH 57

STA 38+40 TO STA 40+00

NOTES

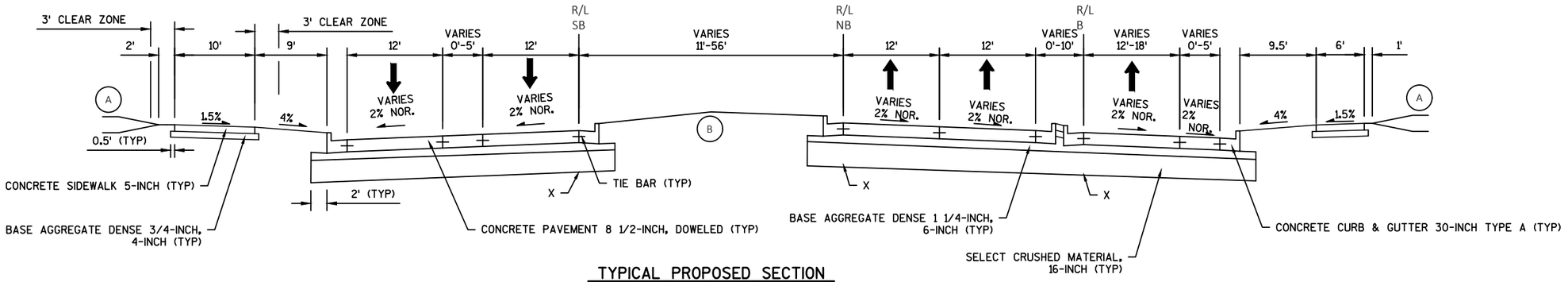
X = POINT REFERRED TO ON CROSS-SECTION

(A) 6" TOPSOIL, SEEDING MIXTURE NO. 40, FERTILIZER TYPE A, AND EROSION MAT

(B) 6" TOPSOIL, SOD LAWN, AND FERTILIZER TYPE A

(C) 6" TOPSOIL, REFER TO LANDSCAPING PLAN FOR OTHER RESTORATION

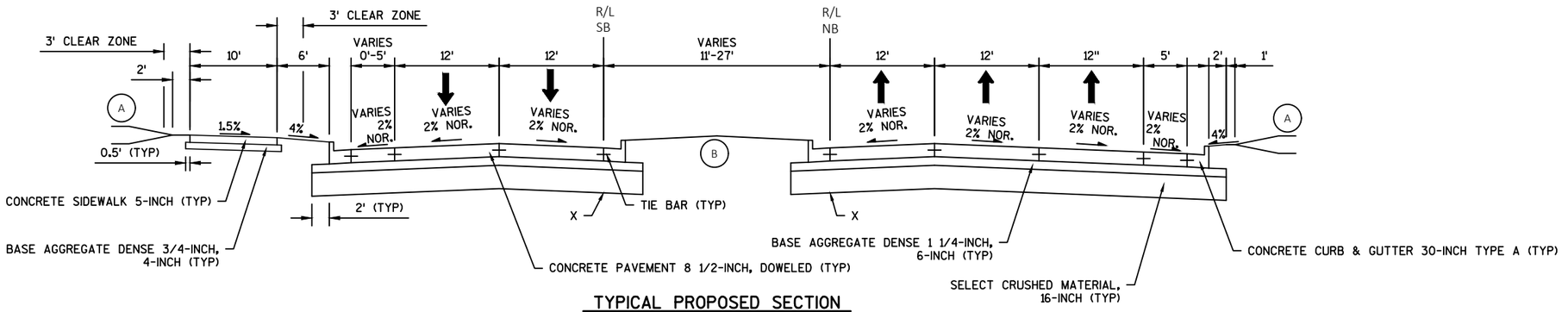
PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	TYPICAL SECTIONS	SHEET 6	E



TYPICAL PROPOSED SECTION

STH 57

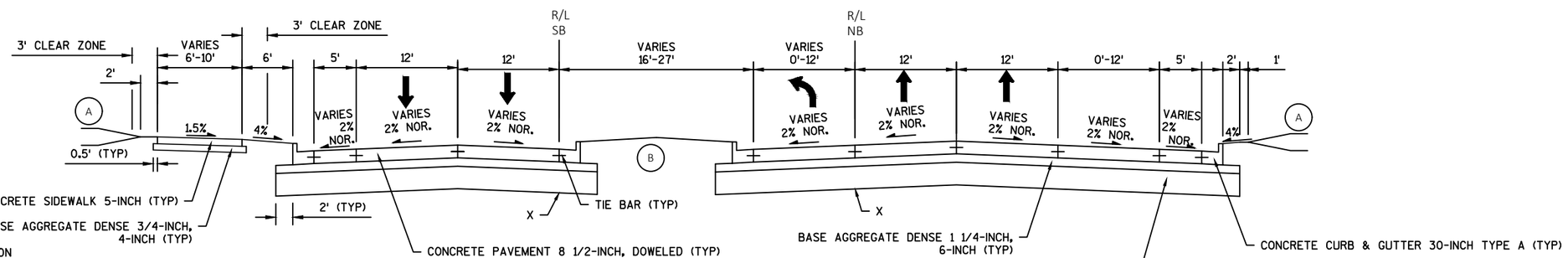
STA 97+20 TO STA 98+75



TYPICAL PROPOSED SECTION

STH 57

STA 98+75 TO STA 100+75



TYPICAL PROPOSED SECTION

STH 57

STA 100+75 TO STA 104+00

NOTES

X = POINT REFERRED TO ON CROSS-SECTION

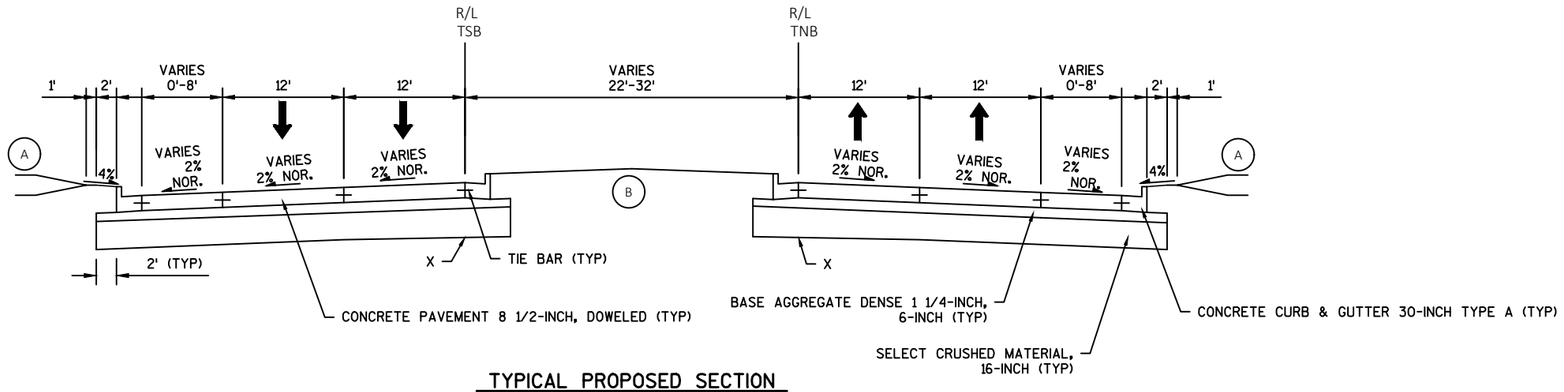
(A) 6" TOPSOIL, SEEDING MIXTURE NO. 40, FERTILIZER TYPE A, AND EROSION MAT

(B) 6" TOPSOIL, SOD LAWN, AND FERTILIZER TYPE A

(C) 6" TOPSOIL, REFER TO LANDSCAPING PLAN FOR OTHER RESTORATION

PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	TYPICAL SECTIONS	SHEET 7	E

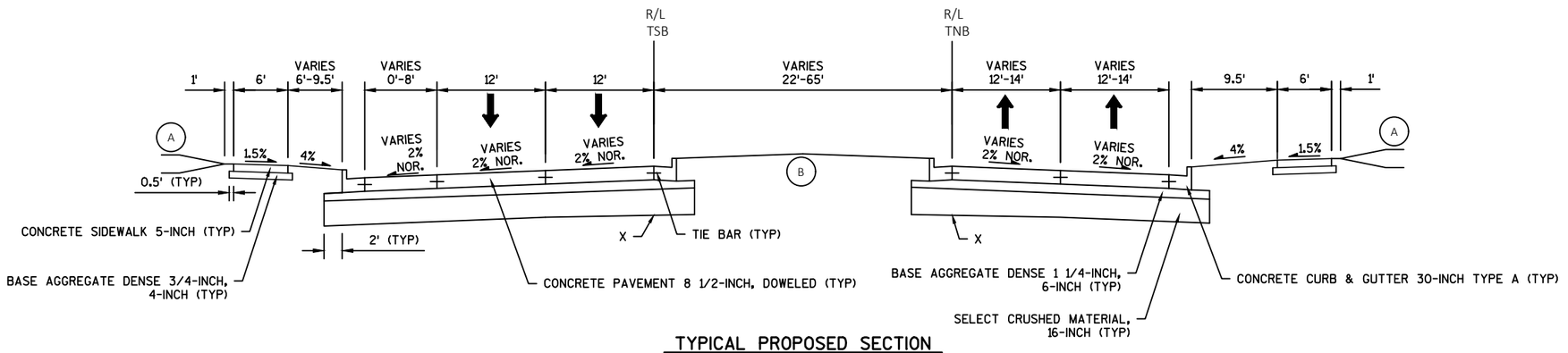
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LAYOUT NAME - 020401_TS - 020402
PLOT DATE : 6/2/2021 12:55 PM PLOT BY : REBECCA JONARDI PLOT NAME : PLOT SCALE : 1:15
WISDOT/CADDS SHEET 42



TYPICAL PROPOSED SECTION

TEUTONIA AVE

STA 91+90 TO STA 94+23



TYPICAL PROPOSED SECTION

TEUTONIA AVE

STA 94+23 TO STA 95+50

NOTES

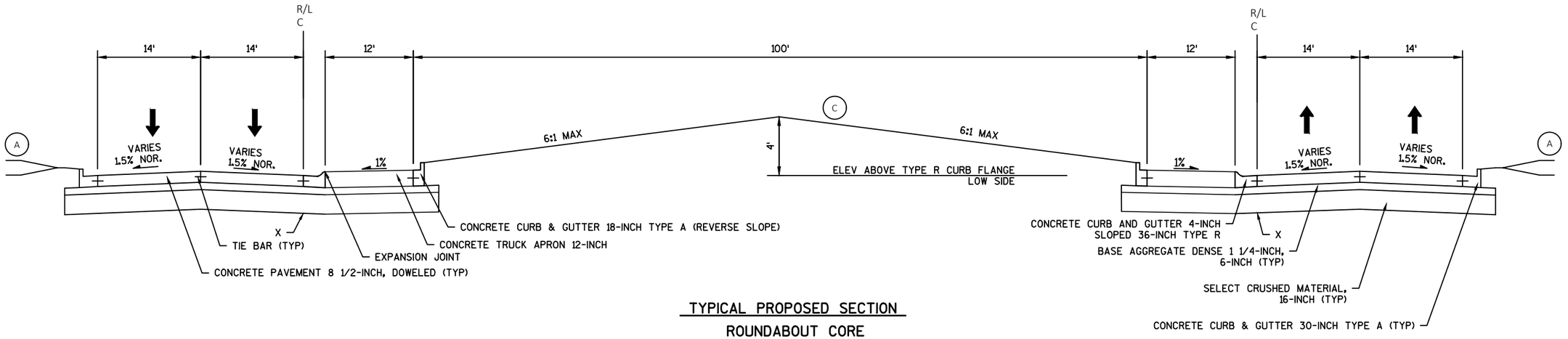
X = POINT REFERRED TO ON CROSS-SECTION

(A) 6" TOPSOIL, SEEDING MIXTURE NO. 40, FERTILIZER TYPE A, AND EROSION MAT

(B) 6" TOPSOIL, SOD LAWN, AND FERTILIZER TYPE A

(C) 6" TOPSOIL, REFER TO LANDSCAPING PLAN FOR OTHER RESTORATION

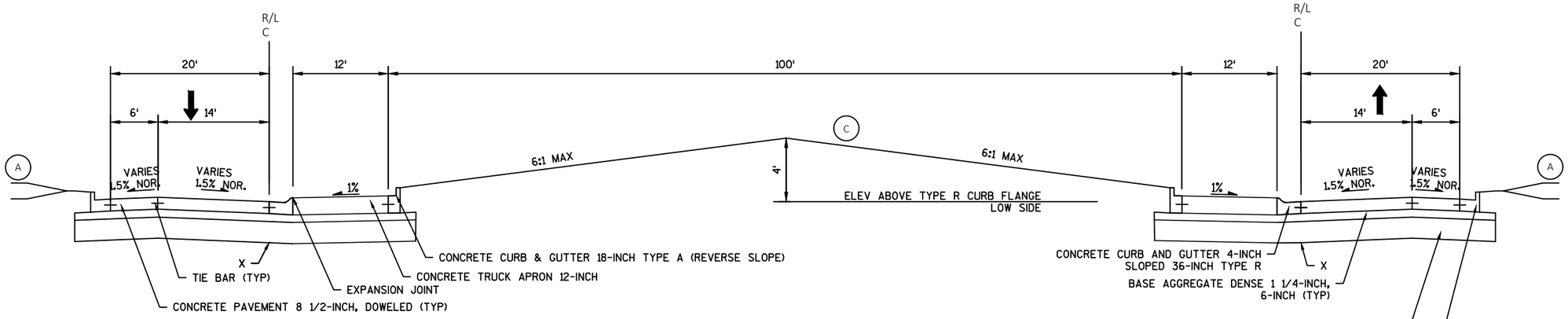
PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	TYPICAL SECTIONS	SHEET 8	E



TYPICAL PROPOSED SECTION

ROUNDABOUT CORE

STA 0+00 TO STA 1+25
STA 2+00 TO STA 3+25



TYPICAL PROPOSED SECTION

ROUNDABOUT CORE

STA 1+25 TO STA 2+00
STA 3+25 TO STA 4+08

NOTES

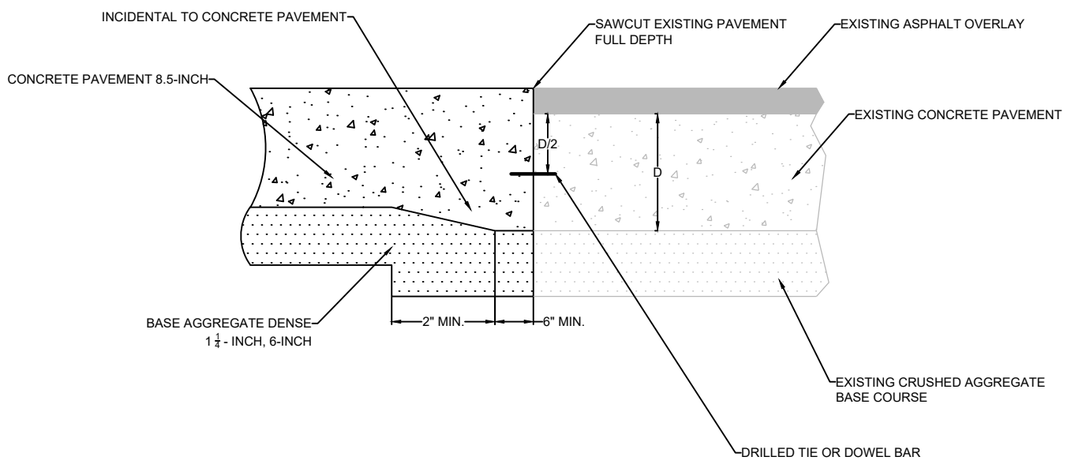
X = POINT REFERRED TO ON CROSS-SECTION

(A) 6" TOPSOIL, SEEDING MIXTURE NO. 40, FERTILIZER TYPE A, AND EROSION MAT

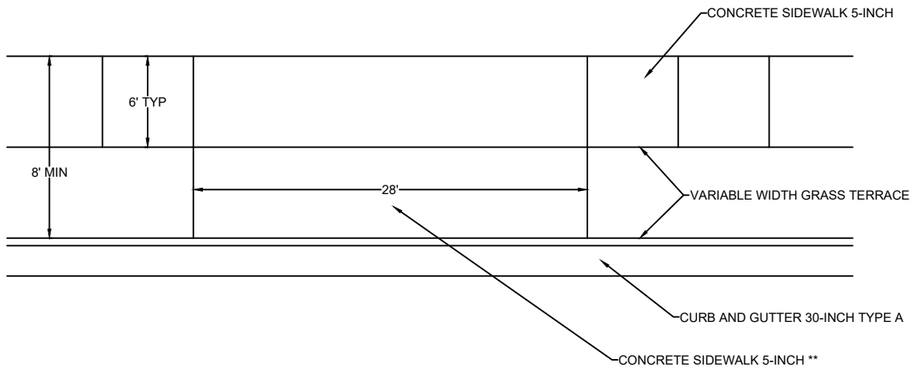
(B) 6" TOPSOIL, SOD LAWN, AND FERTILIZER TYPE A

(C) 6" TOPSOIL, REFER TO LANDSCAPING PLAN FOR OTHER RESTORATION

PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	TYPICAL SECTIONS	SHEET 9	E



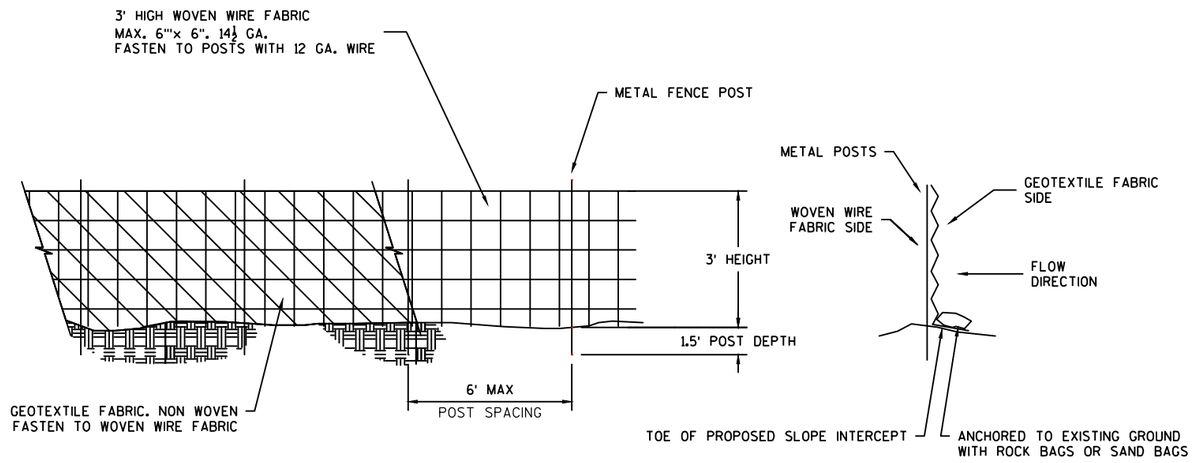
MATCH AT EXISTING CONCRETE PAVEMENT WITH ASPHALT OVERLAY



* SEE PLAN DETAILS FOR DIMENSION
** CONCRETE SIDEWALK 5-INCH REQUIRED

NOTES
1. MAXIMUM SLOPE OF BUS STOP SHALL BE 1.5%
2. NON SLIP SURFACE REQUIRED (BROOM FINISH)

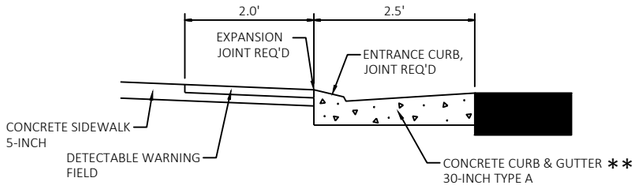
DETAIL OF ADA BUS STOP PAD



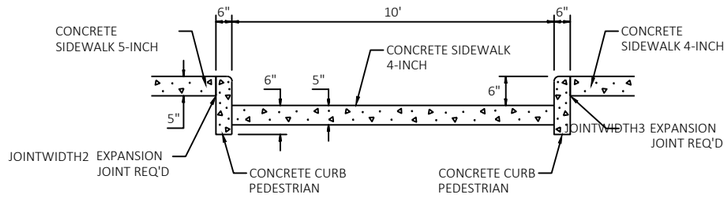
HEAVY DUTY SILT FENCE DETAIL

INSTALL AS NECESSARY AS SHOWN IN THE PLANS
AND DIRECTED BY THE ENGINEER

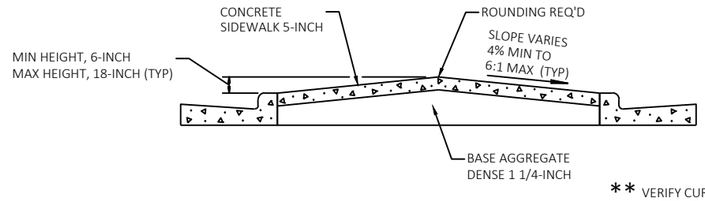
2



SECTION A-A



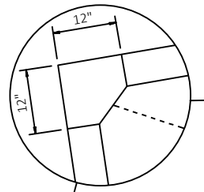
SECTION B-B



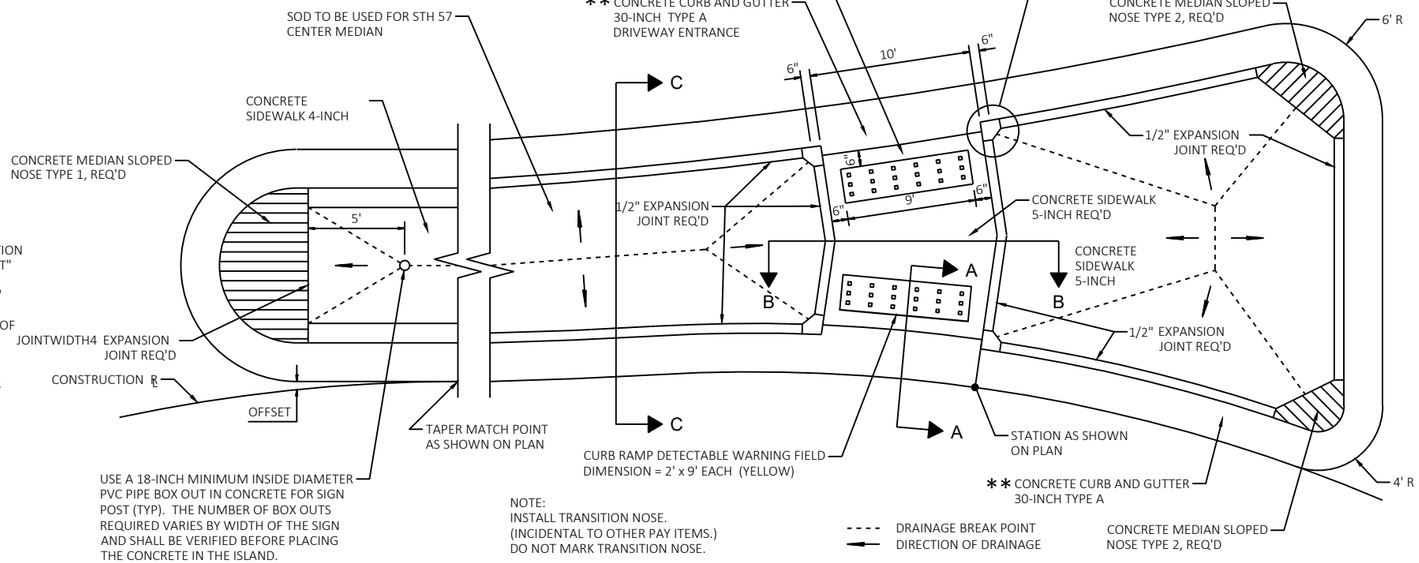
SECTION C-C

** VERIFY CURB AND GUTTER TYPE AND UPDATE AS NEEDED

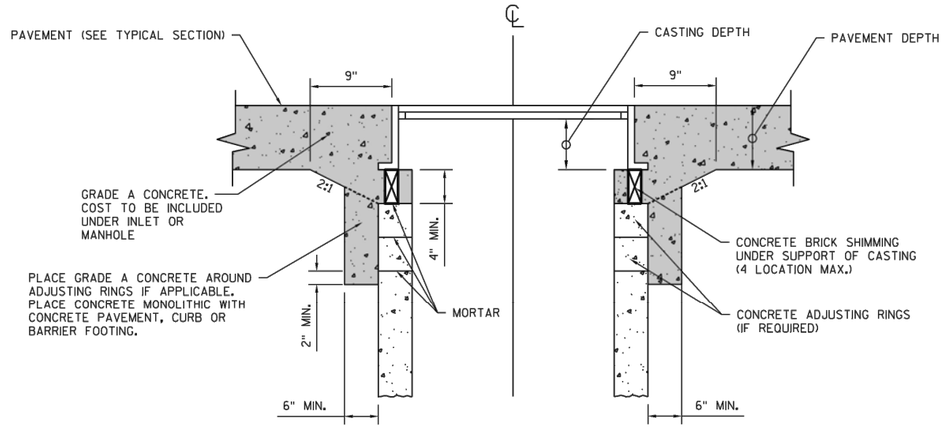
THIS UPDATED DETAIL PROVIDES ADDITIONAL INFORMATION FOR THE SIGNING BOXOUTS AND CURB NOSES AT THE CROSSWALKS THROUGH THE ISLANDS. IT ALSO CALLS FOR PEDESTRIAN CURB ADJACENT TO THE CROSSWALK THROUGH THE ISLAND.



ISLAND SIGN LOCATION DETAIL (TYP)



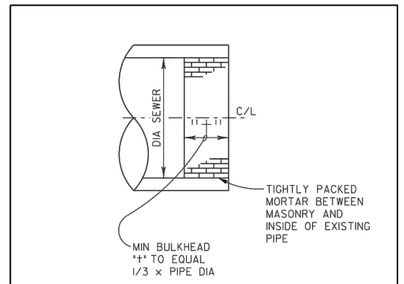
CONCRETE SPLITTER ISLAND DETAIL WITH CROSSWALK



MONOLITHIC SHIM DETAIL

NOTE

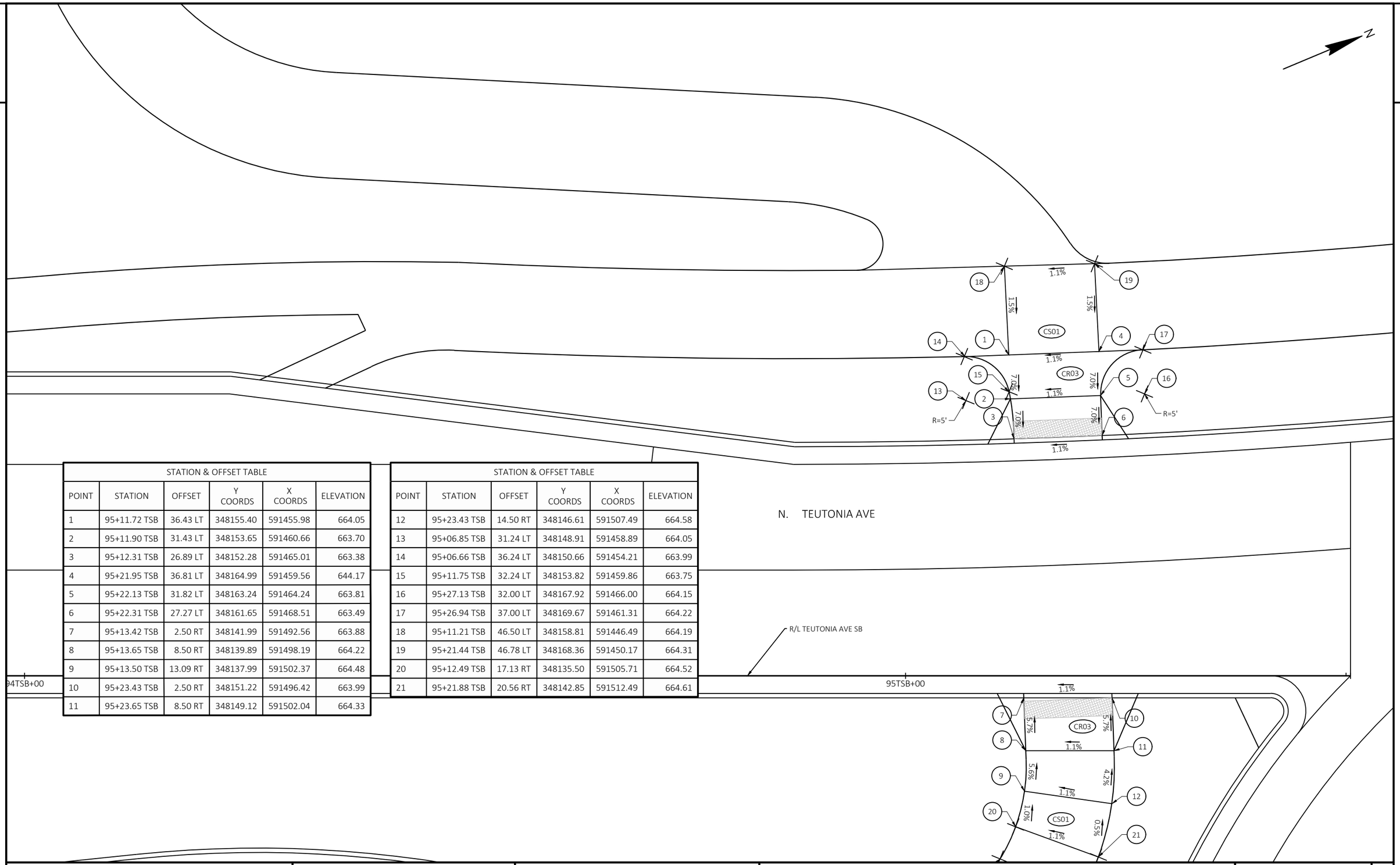
PROVIDE MONOLITHIC CONCRETE SHIMMING FOR FINAL ADJUSTMENT OF DRAINAGE STRUCTURES LOCATED WITHIN THE ROADWAY CONCRETE PAVEMENT AND CONCRETE CURB & GUTTER.



SEALING PIPE DETAIL

2

2



STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
1	95+11.72 TSB	36.43 LT	348155.40	591455.98	664.05
2	95+11.90 TSB	31.43 LT	348153.65	591460.66	663.70
3	95+12.31 TSB	26.89 LT	348152.28	591465.01	663.38
4	95+21.95 TSB	36.81 LT	348164.99	591459.56	644.17
5	95+22.13 TSB	31.82 LT	348163.24	591464.24	663.81
6	95+22.31 TSB	27.27 LT	348161.65	591468.51	663.49
7	95+13.42 TSB	2.50 RT	348141.99	591492.56	663.88
8	95+13.65 TSB	8.50 RT	348139.89	591498.19	664.22
9	95+13.50 TSB	13.09 RT	348137.99	591502.37	664.48
10	95+23.43 TSB	2.50 RT	348151.22	591496.42	663.99
11	95+23.65 TSB	8.50 RT	348149.12	591502.04	664.33

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
12	95+23.43 TSB	14.50 RT	348146.61	591507.49	664.58
13	95+06.85 TSB	31.24 LT	348148.91	591458.89	664.05
14	95+06.66 TSB	36.24 LT	348150.66	591454.21	663.99
15	95+11.75 TSB	32.24 LT	348153.82	591459.86	663.75
16	95+27.13 TSB	32.00 LT	348167.92	591466.00	664.15
17	95+26.94 TSB	37.00 LT	348169.67	591461.31	664.22
18	95+11.21 TSB	46.50 LT	348158.81	591446.49	664.19
19	95+21.44 TSB	46.78 LT	348168.36	591450.17	664.31
20	95+12.49 TSB	17.13 RT	348135.50	591505.71	664.52
21	95+21.88 TSB	20.56 RT	348142.85	591512.49	664.61

PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	INTERSECTION DETAILS	SHEET 13	E

N. TEUTONIA AVE

R/L TEUTONIA AVE NB

95TNB+00

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
1	95+06.70 TNB	41.85 RT	348075.87	591545.81	663.63
2	95+06.96 TNB	36.87 RT	348080.02	591543.06	663.28
3	95+07.18 TNB	32.05 RT	348084.05	591540.41	662.94
4	95+21.43 TNB	41.66 RT	348081.38	591554.15	663.71
5	95+20.91 TNB	36.69 RT	348085.54	591551.41	663.36
6	95+20.45 TNB	31.88 RT	348089.56	591548.75	663.02
7	95+08.32 TNB	2.50 LT	348112.89	591521.35	663.54
8	95+08.46 TNB	8.50 LT	348117.89	591518.04	663.95
9	95+08.59 TNB	14.50 LT	348122.90	591514.73	664.36
10	95+18.14 TNB	2.50 LT	348118.29	591529.76	663.59
11	95+17.85 TNB	8.49 LT	348123.30	591526.45	663.99

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
12	95+17.59 TNB	14.49 LT	348128.31	591523.15	664.38
13	95+17.35 TNB	20.48 LT	348133.31	591519.84	664.58
14	95+17.11 TNB	26.47 LT	348138.30	591516.52	664.64
15	95+08.71 TNB	20.49 LT	348127.90	591511.43	664.53
16	95+08.80 TNB	25.97 LT	348132.46	591508.40	664.55
17	95+00.00 TNB	36.56 RT	348077.27	591538.89	663.50
18	94+99.97 TNB	41.56 RT	348073.34	591541.99	663.58
19	95+27.82 TNB	36.20 RT	348088.29	591555.58	663.67
20	95+28.12 TNB	41.19 RT	348083.90	591557.97	663.75
21	95+05.93 TNB	52.06 RT	348067.30	591551.38	663.75
22	95+22.71 TNB	51.71 RT	348072.97	591559.71	663.85

CS01 CR03 CR03 CS01

0.5% 0.5% 2.8% 0.5% 1.0% 6.8% 0.3% 3.3% 6.8% 0.4% 6.5% 6.7% 0.5% 0.5% 7.0% 0.8% 7.0% 0.8% 7.0% 0.8% 7.0% 1.0%

R=5' R=5'

N

2C+00



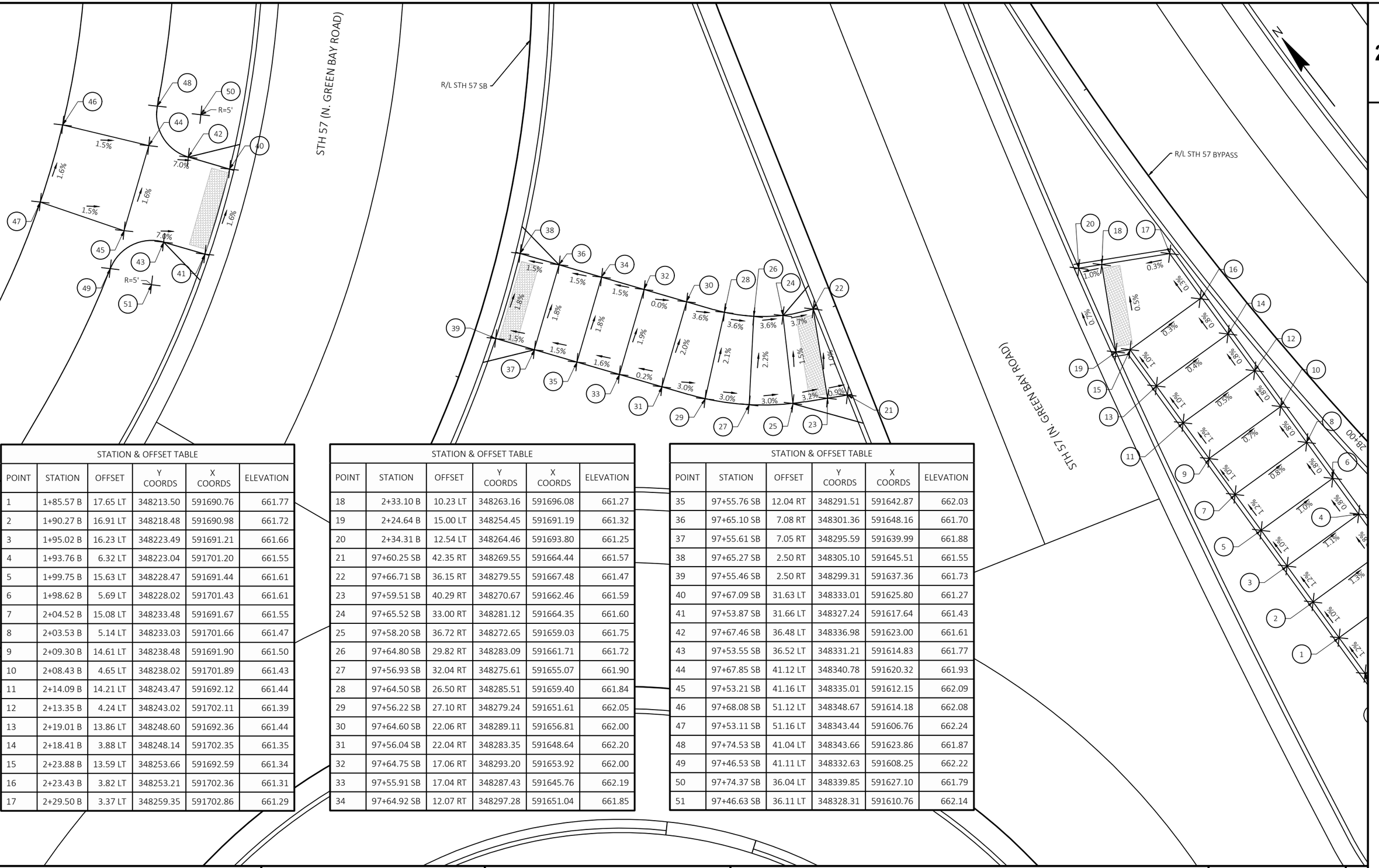
STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
1	39+73.26 WB	64.25 LT	348086.42	591637.40	662.62
2	39+66.78 WB	61.30 LT	348081.31	591646.04	661.61
3	39+74.55 WB	59.66 LT	348090.85	591639.64	662.27
4	39+67.94 WB	56.59 LT	348085.78	591648.30	661.96
5	39+75.89 WB	55.10 LT	348095.27	591641.87	661.92
6	39+69.32 WB	51.34 LT	348090.78	591650.81	661.61
7	39+85.39 WB	28.84 LT	348121.26	591654.95	662.16
8	39+77.97 WB	24.35 LT	348116.87	591663.94	661.96
9	39+87.33 WB	24.42 LT	348125.71	591657.22	662.18
10	39+79.74 WB	19.79 LT	348121.32	591666.22	662.01
11	39+89.15 WB	18.95 LT	348130.55	591660.54	662.20
12	39+80.68 WB	16.12 LT	348124.42	591668.46	662.05
13	39+90.15 WB	12.50 LT	348135.07	591665.28	662.04
14	39+81.02 WB	12.72 LT	348126.79	591670.92	661.94
15	39+90.26 WB	7.50 LT	348137.92	591669.39	661.93
16	39+80.81 WB	7.73 LT	348129.66	591675.01	661.84
17	39+90.32 WB	2.50 LT	348140.74	591673.52	661.83
18	39+80.51 WB	2.50 LT	348132.60	591679.34	661.74
19	39+90.70 WB	20.09 RT	348153.45	591692.20	661.50
20	39+78.89 WB	19.80 RT	348145.18	591697.82	661.40
21	39+90.83 WB	26.09 RT	348156.82	591697.16	661.43
22	39+78.34 WB	25.79 RT	348148.56	591702.78	661.33
23	39+90.97 WB	32.09 RT	348160.20	591702.12	661.32
24	39+77.72 WB	31.77 RT	348151.93	591707.74	661.22
25	39+91.13 WB	38.08 RT	348163.58	591707.08	661.21

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
26	39+77.01 WB	37.74 RT	348155.31	591712.70	661.11
27	39+91.31 WB	44.08 RT	348166.95	591712.04	661.10
28	39+76.22 WB	43.72 RT	348158.68	591717.66	661.00
29	39+91.46 WB	48.30 RT	348169.32	591715.52	661.03
30	39+75.92 WB	45.74 RT	348159.83	591719.35	660.97
31	39+92.68 WB	72.16 RT	348182.75	591735.25	660.66
32	39+71.09 WB	69.05 RT	348173.03	591738.73	660.60
33	39+93.08 WB	77.18 RT	348185.58	591739.41	661.01
34	39+69.19 WB	73.85 RT	348175.63	591742.86	660.95
35	39+93.50 WB	82.35 RT	348188.47	591743.70	661.36
36	39+66.82 WB	78.89 RT	348178.37	591747.20	661.30
37	39+77.76 WB	61.33 LT	348093.41	591635.34	662.68
38	39+76.32 WB	65.84 LT	348088.90	591633.21	662.76
39	39+63.55 WB	59.70 LT	348079.06	591650.51	662.15
40	39+62.60 WB	64.49 LT	348074.65	591648.15	662.22
41	39+70.94 WB	73.15 LT	348077.87	591633.07	662.77
42	39+64.86 WB	69.73 LT	348073.36	591642.02	662.44
43	39+58.96 WB	71.68 RT	348170.91	591744.51	661.18
44	39+54.16 WB	76.23 RT	348172.93	591749.09	661.25
45	40+05.74 WB	78.13 RT	348190.49	591737.73	661.30
46	40+02.80 WB	83.00 RT	348191.73	591742.57	661.37
47	39+63.51 WB	84.53 RT	348181.45	591752.09	661.40
48	39+94.19 WB	88.43 RT	348191.88	591748.74	661.46
49	1+42.17 B	10.32 LT	348169.65	591707.11	661.18
50	1+39.59 B	21.05 LT	348163.41	591697.94	661.38

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
51	1+46.24 B	10.28 LT	348173.80	591705.81	661.28
52	1+44.27 B	20.49 LT	348168.63	591696.73	661.43
53	1+50.41 B	10.00 LT	348178.15	591704.80	661.33
54	1+48.86 B	20.11 LT	348173.72	591695.56	661.48
55	1+54.98 B	9.84 LT	348182.90	591703.71	661.38
56	1+53.35 B	19.89 LT	348178.69	591694.42	661.53
57	1+59.37 B	9.83 LT	348187.45	591702.66	661.43
58	1+57.86 B	19.82 LT	348183.66	591693.27	661.58
59	1+63.67 B	9.95 LT	348191.93	591701.63	661.48
60	1+62.33 B	19.91 LT	348188.59	591692.13	661.63
61	1+66.74 B	10.01 LT	348195.14	591701.00	661.53
62	1+66.78 B	20.01 LT	348193.54	591691.13	661.68
63	1+70.78 B	9.85 LT	348199.28	591700.50	661.58
64	1+71.49 B	19.82 LT	348198.51	591690.53	661.73
65	1+74.82 B	9.39 LT	348203.45	591700.35	661.63
66	1+76.20 B	19.28 LT	348203.51	591690.35	661.78
67	1+79.24 B	8.60 LT	348208.05	591700.52	661.68
68	1+80.88 B	18.46 LT	348208.51	591690.53	661.83
69	1+84.06 B	7.77 LT	348213.05	591700.75	661.63
70	1+88.90 B	7.01 LT	348218.04	591700.98	661.59

PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	INTERSECTION DETAILS	SHEET 15	E

FILE NAME : L:\DESIGN PROJECTS\2565-07-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\021101_ID.DWG
LAYOUT NAME - 021103
PLOT DATE : 4/6/2021 3:04 PM
PLOT BY : REBECCA JONARDI
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42



STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
1	1+85.57 B	17.65 LT	348213.50	591690.76	661.77
2	1+90.27 B	16.91 LT	348218.48	591690.98	661.72
3	1+95.02 B	16.23 LT	348223.49	591691.21	661.66
4	1+93.76 B	6.32 LT	348223.04	591701.20	661.55
5	1+99.75 B	15.63 LT	348228.47	591691.44	661.61
6	1+98.62 B	5.69 LT	348228.02	591701.43	661.61
7	2+04.52 B	15.08 LT	348233.48	591691.67	661.55
8	2+03.53 B	5.14 LT	348233.03	591701.66	661.47
9	2+09.30 B	14.61 LT	348238.48	591691.90	661.50
10	2+08.43 B	4.65 LT	348238.02	591701.89	661.43
11	2+14.09 B	14.21 LT	348243.47	591692.12	661.44
12	2+13.35 B	4.24 LT	348243.02	591702.11	661.39
13	2+19.01 B	13.86 LT	348248.60	591692.36	661.44
14	2+18.41 B	3.88 LT	348248.14	591702.35	661.35
15	2+23.88 B	13.59 LT	348253.66	591692.59	661.34
16	2+23.43 B	3.82 LT	348253.21	591702.36	661.31
17	2+29.50 B	3.37 LT	348259.35	591702.86	661.29

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
18	2+33.10 B	10.23 LT	348263.16	591696.08	661.27
19	2+24.64 B	15.00 LT	348254.45	591691.19	661.32
20	2+34.31 B	12.54 LT	348264.46	591693.80	661.25
21	97+60.25 SB	42.35 RT	348269.55	591664.44	661.57
22	97+66.71 SB	36.15 RT	348279.55	591667.48	661.47
23	97+59.51 SB	40.29 RT	348270.67	591662.46	661.59
24	97+65.52 SB	33.00 RT	348281.12	591664.35	661.60
25	97+58.20 SB	36.72 RT	348272.65	591659.03	661.75
26	97+64.80 SB	29.82 RT	348283.09	591661.71	661.72
27	97+56.93 SB	32.04 RT	348275.61	591655.07	661.90
28	97+64.50 SB	26.50 RT	348285.51	591659.40	661.84
29	97+56.22 SB	27.10 RT	348279.24	591651.61	662.05
30	97+64.60 SB	22.06 RT	348289.11	591656.81	662.00
31	97+56.04 SB	22.04 RT	348283.35	591648.64	662.20
32	97+64.75 SB	17.06 RT	348293.20	591653.92	662.00
33	97+55.91 SB	17.04 RT	348287.43	591645.76	662.19
34	97+64.92 SB	12.07 RT	348297.28	591651.04	661.85

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
35	97+55.76 SB	12.04 RT	348291.51	591642.87	662.03
36	97+65.10 SB	7.08 RT	348301.36	591648.16	661.70
37	97+55.61 SB	7.05 RT	348295.59	591639.99	661.88
38	97+65.27 SB	2.50 RT	348305.10	591645.51	661.55
39	97+55.46 SB	2.50 RT	348299.31	591637.36	661.73
40	97+67.09 SB	31.63 LT	348333.01	591625.80	661.27
41	97+53.87 SB	31.66 LT	348327.24	591617.64	661.43
42	97+67.46 SB	36.48 LT	348336.98	591623.00	661.61
43	97+53.55 SB	36.52 LT	348331.21	591614.83	661.77
44	97+67.85 SB	41.12 LT	348340.78	591620.32	661.93
45	97+53.21 SB	41.16 LT	348335.01	591612.15	662.09
46	97+68.08 SB	51.12 LT	348348.67	591614.18	662.08
47	97+53.11 SB	51.16 LT	348343.44	591606.76	662.24
48	97+74.53 SB	41.04 LT	348343.66	591623.86	661.87
49	97+46.53 SB	41.11 LT	348332.63	591608.25	662.22
50	97+74.37 SB	36.04 LT	348339.85	591627.10	661.79
51	97+46.63 SB	36.11 LT	348328.31	591610.76	662.14

PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	VFG - CENTER - (7)	SHEET 16	E

2

LEGEND

BR01	BICYCLE RAMP	CP01	CONCRETE PAVEMENT 8 1/2-INCH, DOWELED
BS01	BUS STOP	CR03	CURB RAMP TYPE 3
CG01	CONCRETE CURB AND GUTTER 30-INCH TYPE A	CR05	CURB RAMP TYPE 5
CG02	CONCRETE CURB AND GUTTER 18-INCH TYPE A (REVERSE SLOPE)	CS01	CONCRETE SIDEWALK 5-INCH
CG03	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE R	CT01	CONCRETE TRUCK APRON 12-INCH (RED)
CG04	CONCRETE CURB PEDESTRIAN	SEED	SEEDING MIXTURE No. 40
CM01	CONCRETE MEDIAN SLOPED NOSE TYPE 1	SOD	SOD LAWN
CM02	CONCRETE MEDIAN SLOPED NOSE TYPE 2		

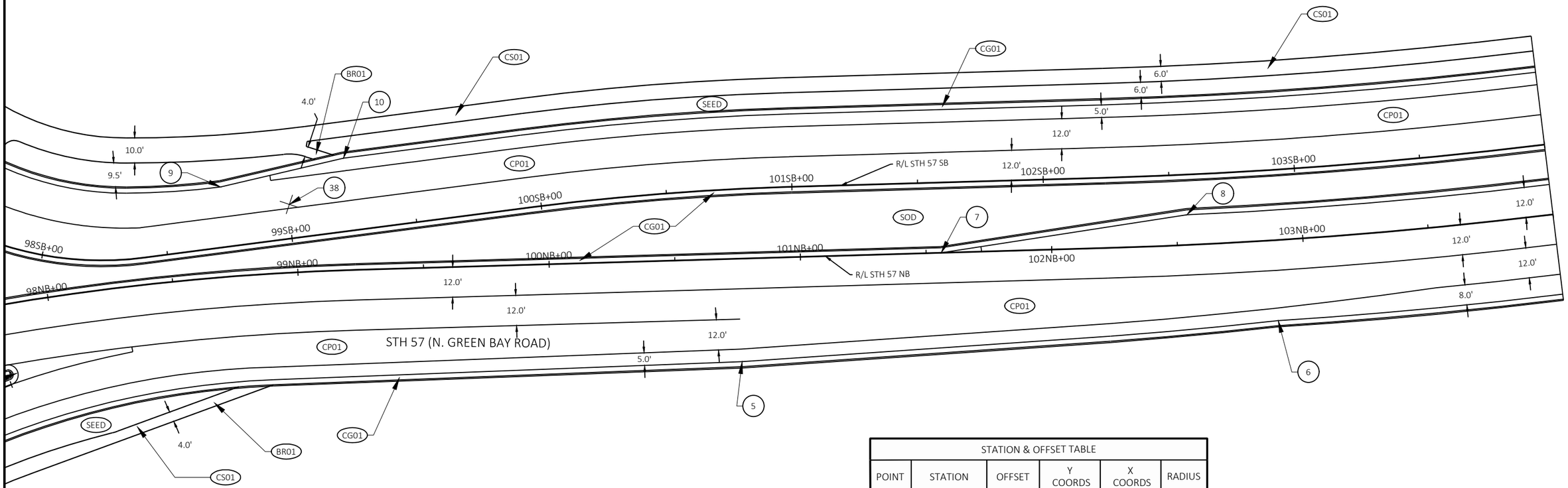
STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
1	93+66.57 TNB	32.89 RT	347979.83	591488.44	--
2	94+19.39 TNB	25.55 RT	348032.53	591496.57	--
3	94+00.91 TSB	107.08 LT	348080.32	591348.12	--
4	94+87.27 TSB	24.00 LT	348128.05	591458.04	--
13	94+36.77 TSB	95.44 LT	348108.94	591372.67	27'
14	94+36.52 TSB	93.45 LT	348107.95	591374.41	37'
15	94+85.30 TSB	26.84 LT	348127.33	591454.66	27'
16	94+87.80 TSB	28.72 LT	348130.36	591453.89	37'
17	94+94.44 TSB	49.03 LT	348144.31	591437.70	3'

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
19	3+68.45 C	16.50 LT	348243.50	591617.42	--
20	3+55.10 C	16.50 LT	348235.82	591623.74	--
34	0+34.67 C	28.00 RT	348295.72	591549.79	--
35	0+02.11 C	41.03 RT	348314.10	591597.29	--
36	97+37.63 SB	4.00 RT	348289.07	591622.17	2'
37	97+25.69 NB	4.00 LT	348256.17	591658.81	2'
C1	94+87.27 TSB	824.00 LT	348435.99	590719.68	798'
PC1	94+87.39 TSB	26.00 LT	348128.93	591456.24	--
PCC1	0+96.08 C	30.00 RT	348233.14	591491.47	--

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
18	95+22.87 TSB	51.82 LT	348171.62	591446.07	5'
21	94+47.81 TSB	16.96 LT	348088.92	591449.34	20'
22	93+88.27 TSB	38.55 LT	348042.28	591406.50	--
23	94+93.70 TSB	10.28 RT	348120.79	591492.15	20'
24	95+41.43 TSB	4.00 RT	348167.26	591504.73	2'
25	95+36.75 TNB	4.00 LT	348128.12	591546.17	2'
28	95+30.45 TNB	56.14 RT	348071.06	591565.75	5'
29	94+94.09 TNB	56.53 RT	348059.51	591548.77	5'
30	93+88.40 TNB	95.23 RT	347982.85	591554.43	--

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
31	93+80.77 TNB	37.69 RT	347992.05	591497.11	--
32	93+80.42 TNB	21.69 RT	347996.31	591481.69	16
33	92+60.80 TNB	38.20 RT	347875.55	591461.30	--

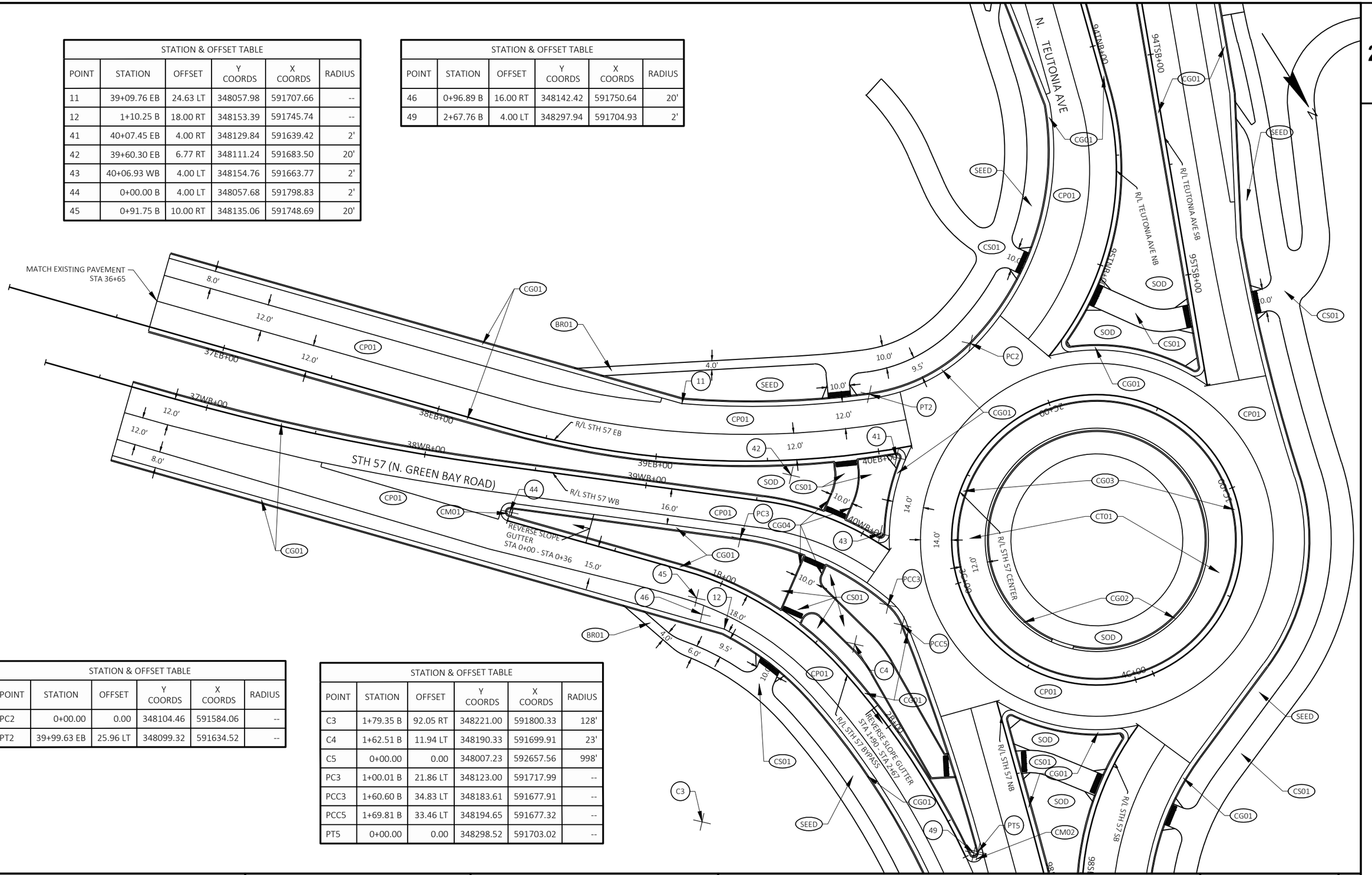
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STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
5	100+75.62 NB	41.00 RT	348561.31	591831.37	--
6	102+88.16 NB	32.00 RT	348759.18	591912.52	--
7	101+56.01 NB	0.00	348651.50	591828.22	--
8	102+54.37 NB	12.00 LT	348745.62	591858.62	--
9	98+74.39 SB	24.00 LT	348407.12	591676.00	--
10	99+24.39 SB	29.00 LT	348455.96	591687.79	--
38	99+00.65 SB	13.59 LT	348428.47	591694.50	20'

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
11	39+09.76 EB	24.63 LT	348057.98	591707.66	--
12	1+10.25 B	18.00 RT	348153.39	591745.74	--
41	40+07.45 EB	4.00 RT	348129.84	591639.42	2'
42	39+60.30 EB	6.77 RT	348111.24	591683.50	20'
43	40+06.93 WB	4.00 LT	348154.76	591663.77	2'
44	0+00.00 B	4.00 LT	348057.68	591798.83	2'
45	0+91.75 B	10.00 RT	348135.06	591748.69	20'

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
46	0+96.89 B	16.00 RT	348142.42	591750.64	20'
49	2+67.76 B	4.00 LT	348297.94	591704.93	2'



STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
PC2	0+00.00	0.00	348104.46	591584.06	--
PT2	39+99.63 EB	25.96 LT	348099.32	591634.52	--

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
C3	1+79.35 B	92.05 RT	348221.00	591800.33	128'
C4	1+62.51 B	11.94 LT	348190.33	591699.91	23'
C5	0+00.00	0.00	348007.23	592657.56	998'
PC3	1+00.01 B	21.86 LT	348123.00	591717.99	--
PCC3	1+60.60 B	34.83 LT	348183.61	591677.91	--
PCC5	1+69.81 B	33.46 LT	348194.65	591677.32	--
PT5	0+00.00	0.00	348298.52	591703.02	--

PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 20	E

2

N

R/L TEUTONIA AVE SB

R/L TEUTONIA AVE NB

N. TEUTONIA AVE

R/L STH 57 CENTER

R/L STH 57 EB

R/L STH 57 WB

R/L STH 57 BYPASS

92TSB+00

93TSB+00

94TSB+00

95TSB+00

92TNB+00

93TNB+00

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95TNB+00

40EB+00

40WB+00

1B+00

2B+00

3C+00

98SB+00

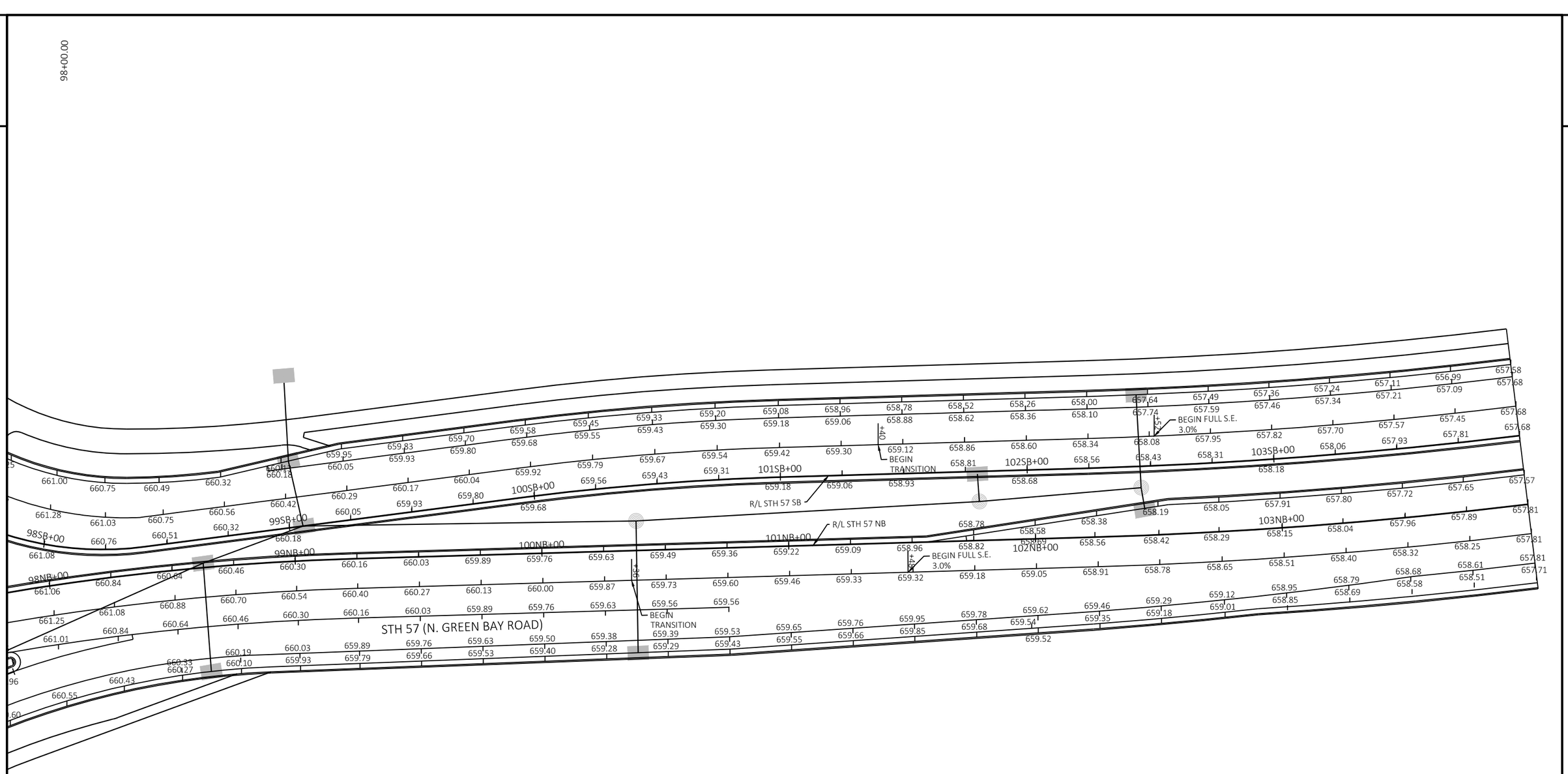
98NB+00

PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	PAVING GRADES	SHEET 21	E

FILE NAME : L:\DESIGN PROJECTS\2565-07-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\021261_PD.DWG
LAYOUT NAME - 021261

PLOT DATE : 4/19/2021 10:05 AM PLOT BY : REBECCA JONARDI PLOT NAME : PLOT SCALE : 1 IN:40 FT

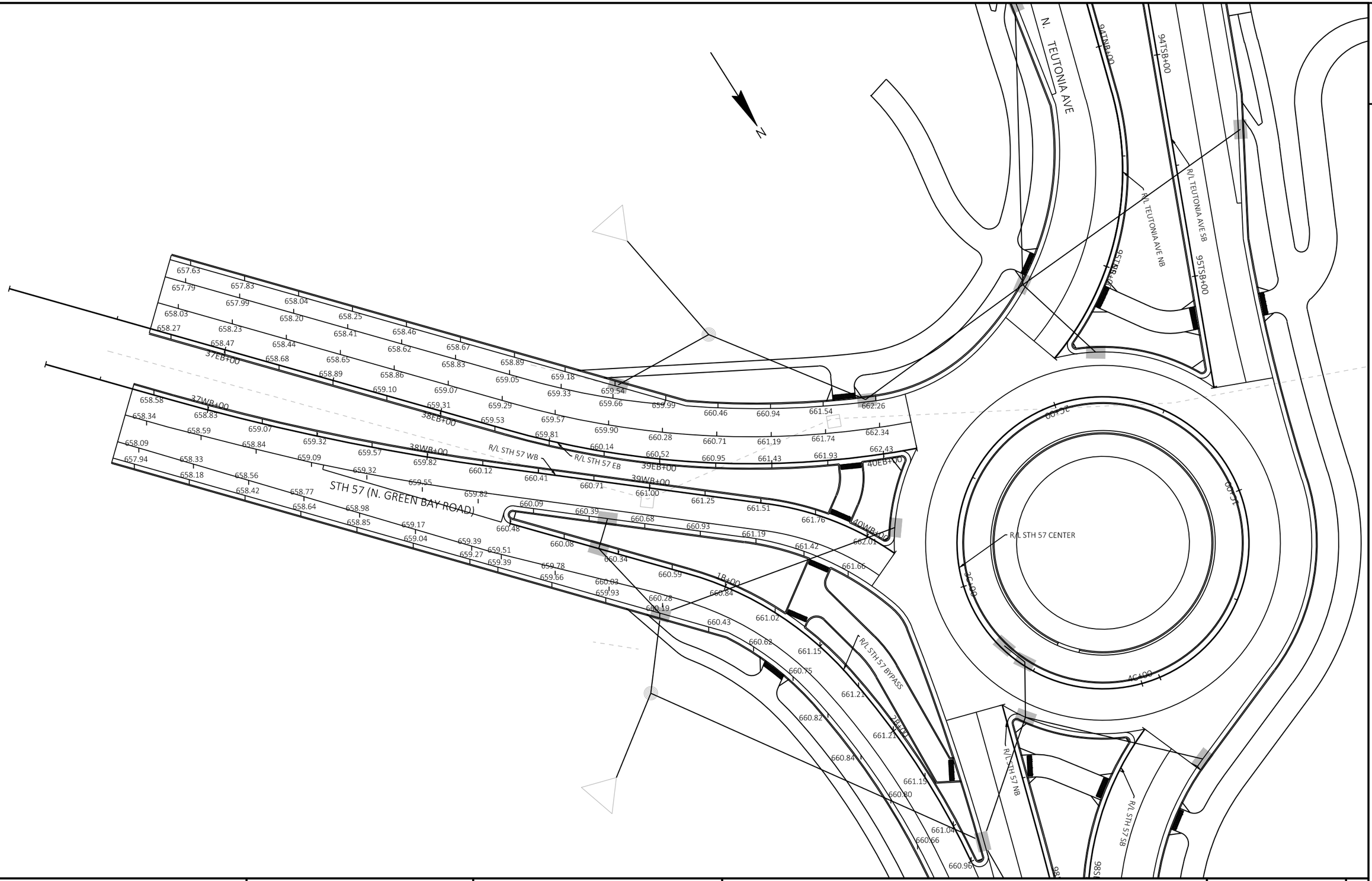
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PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	PAVING GRADES	SHEET 22	E

FILE NAME : L:\DESIGN PROJECTS\2565-07-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\021261_PD.DWG
LAYOUT NAME - 021262

PLOT DATE : 4/19/2021 10:05 AM PLOT BY : REBECCA JONARDI PLOT NAME : PLOT SCALE : 1 IN:40 FT

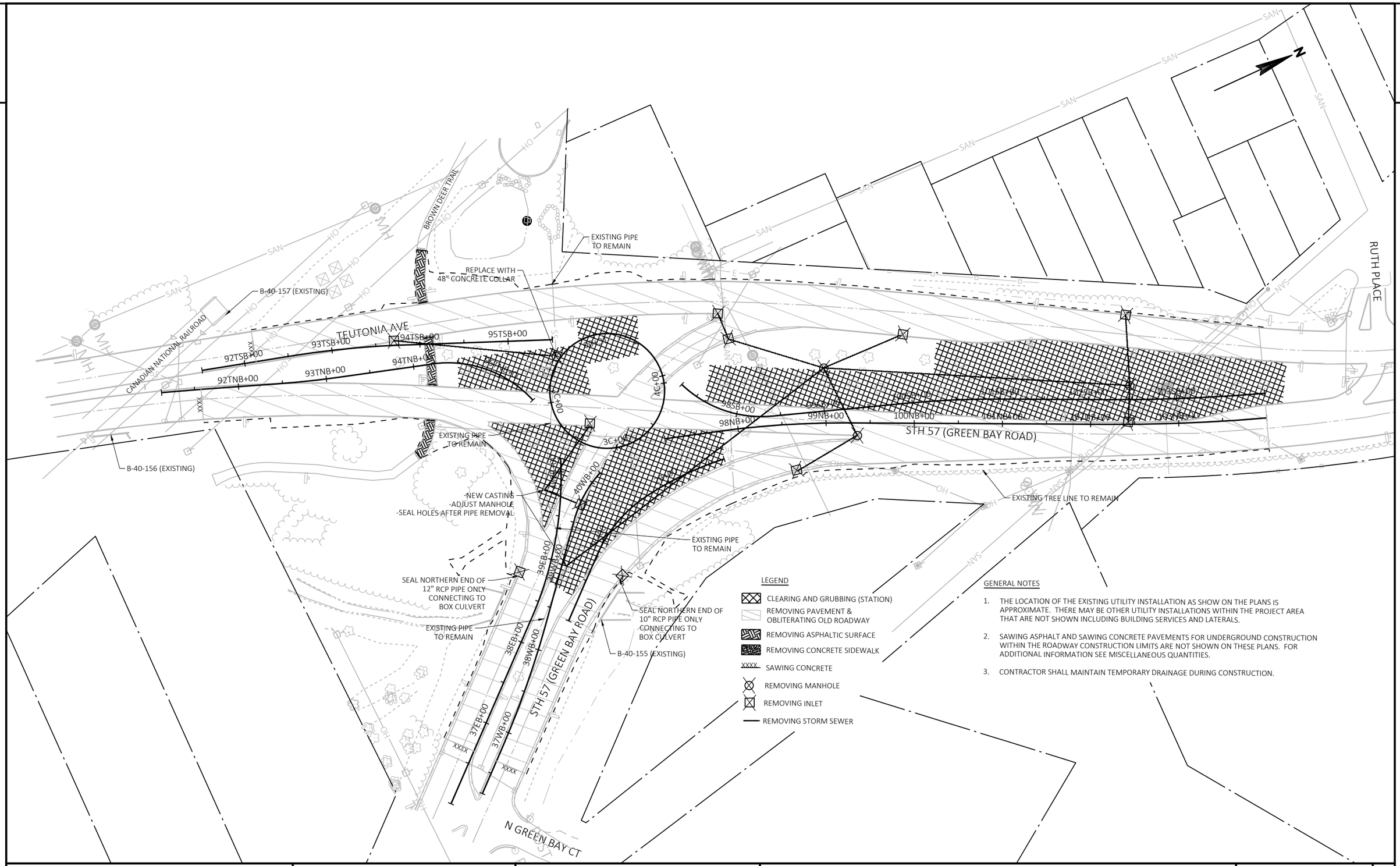


PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	PAVING GRADES	SHEET 23	E

FILE NAME : L:\DESIGN PROJECTS\2565-07-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\021262_PD.DWG
LAYOUT NAME - 021263

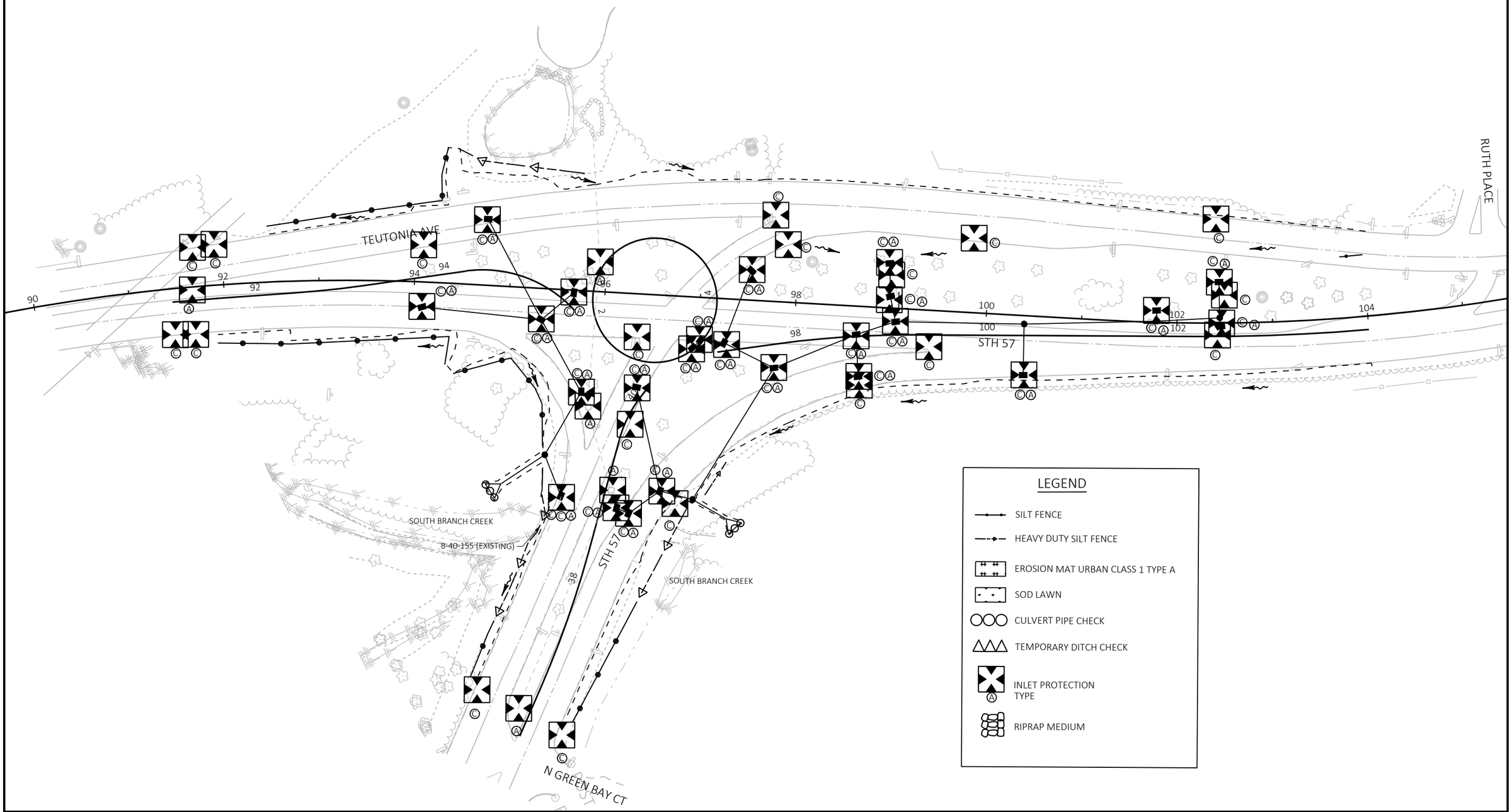
PLOT DATE : 4/29/2021 2:58 PM PLOT BY : REBECCA JONARDI PLOT NAME : PLOT SCALE : 1 IN:40 FT

2



PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	REMOVALS	SHEET 24	E

2

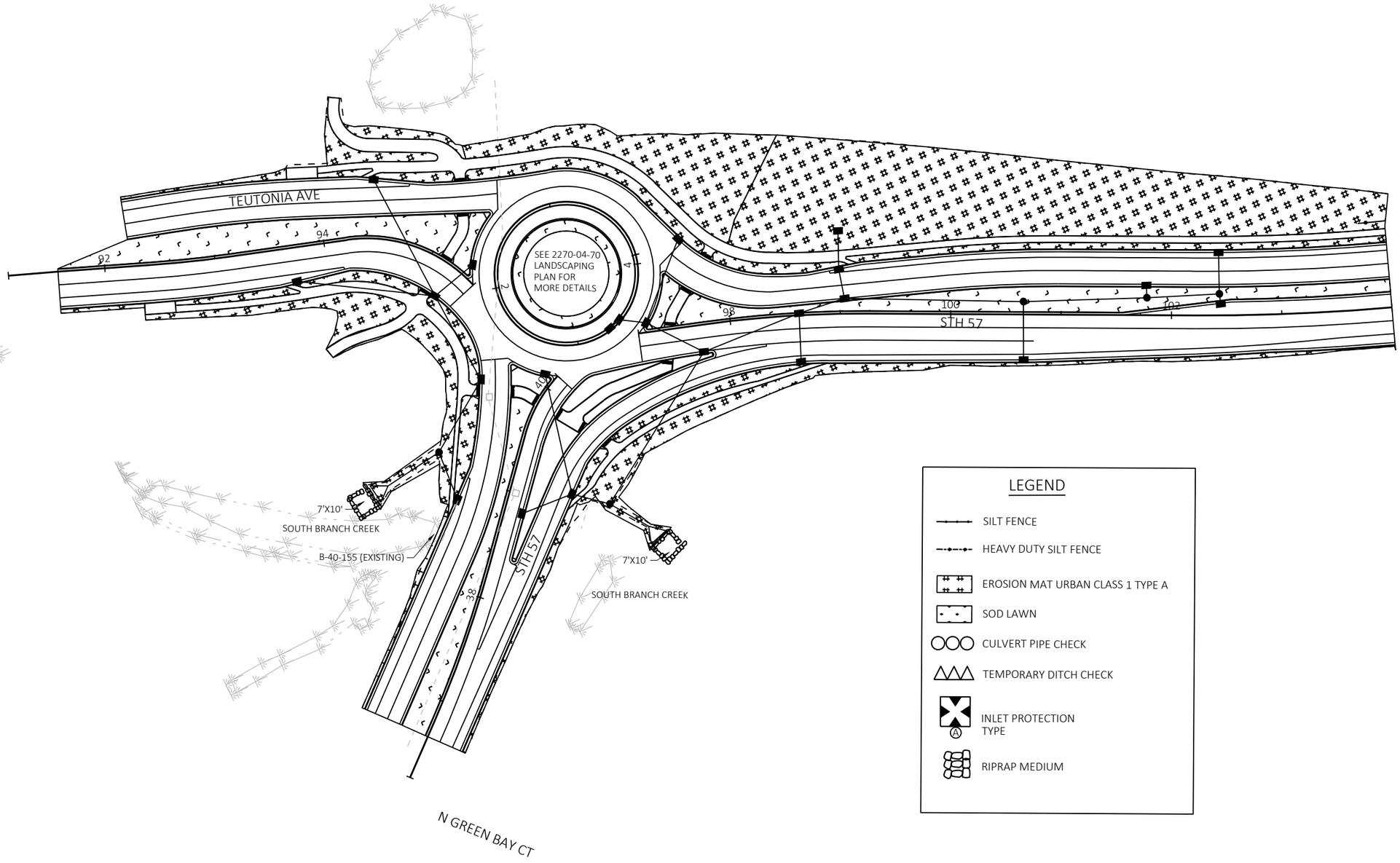


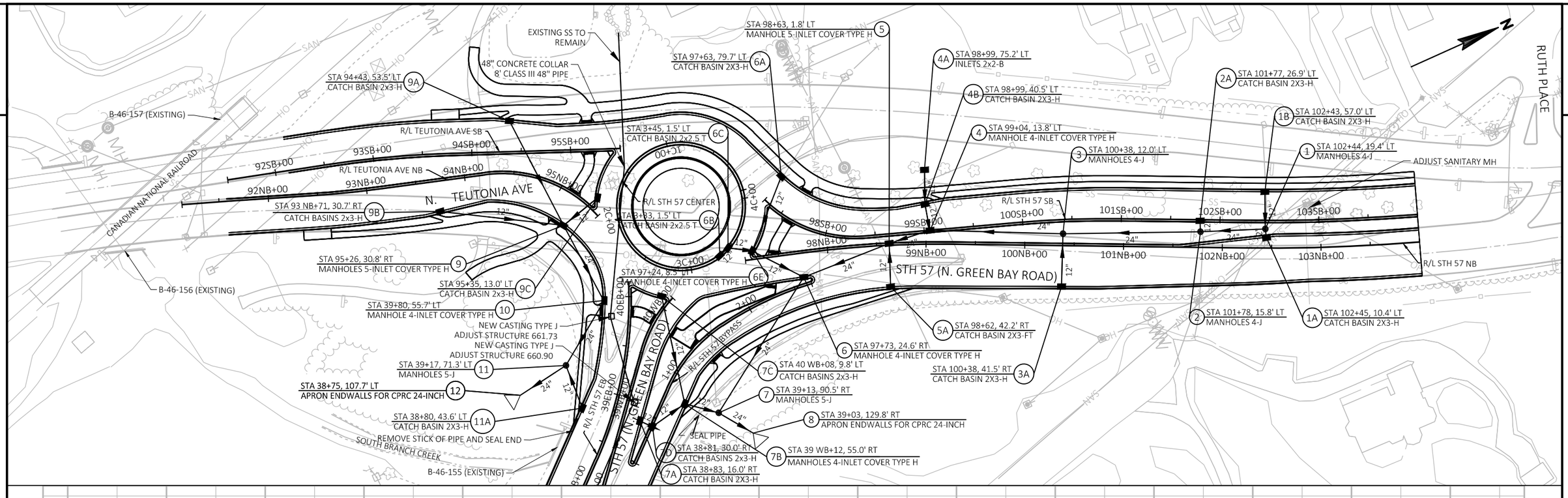
PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 25	E

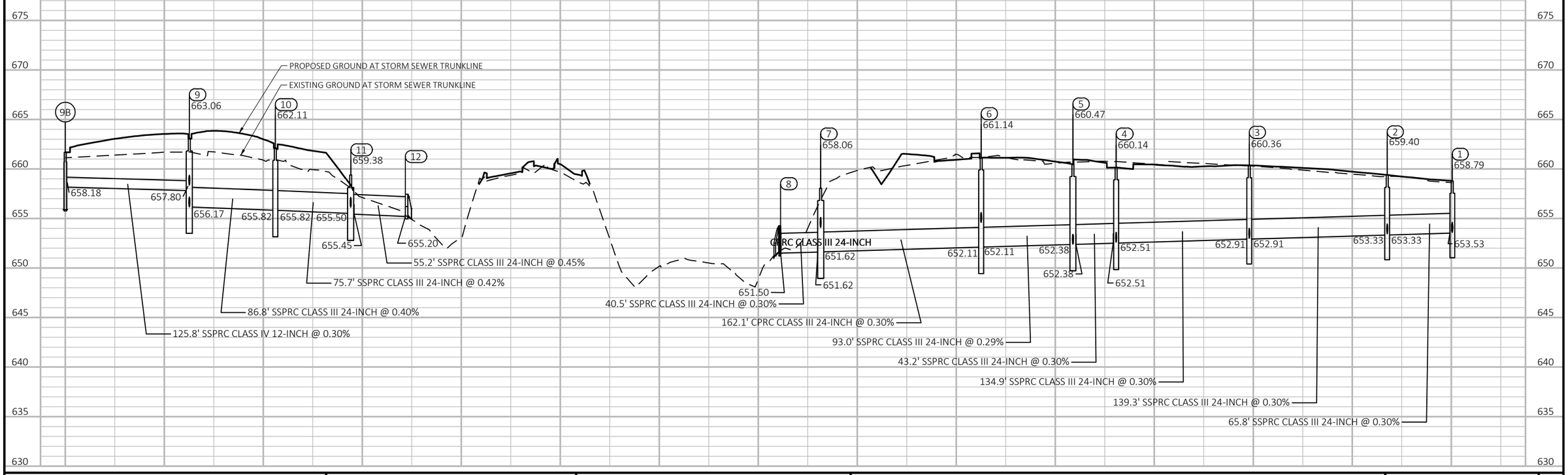
FILE NAME : L:\DESIGN PROJECTS\2565-07-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\022001_EC.DWG
LAYOUT NAME - 022001_ec

PLOT DATE : 4/9/2021 12:02 PM PLOT BY : REBECCA JONARDI PLOT NAME : PLOT SCALE : 1 IN:100 FT

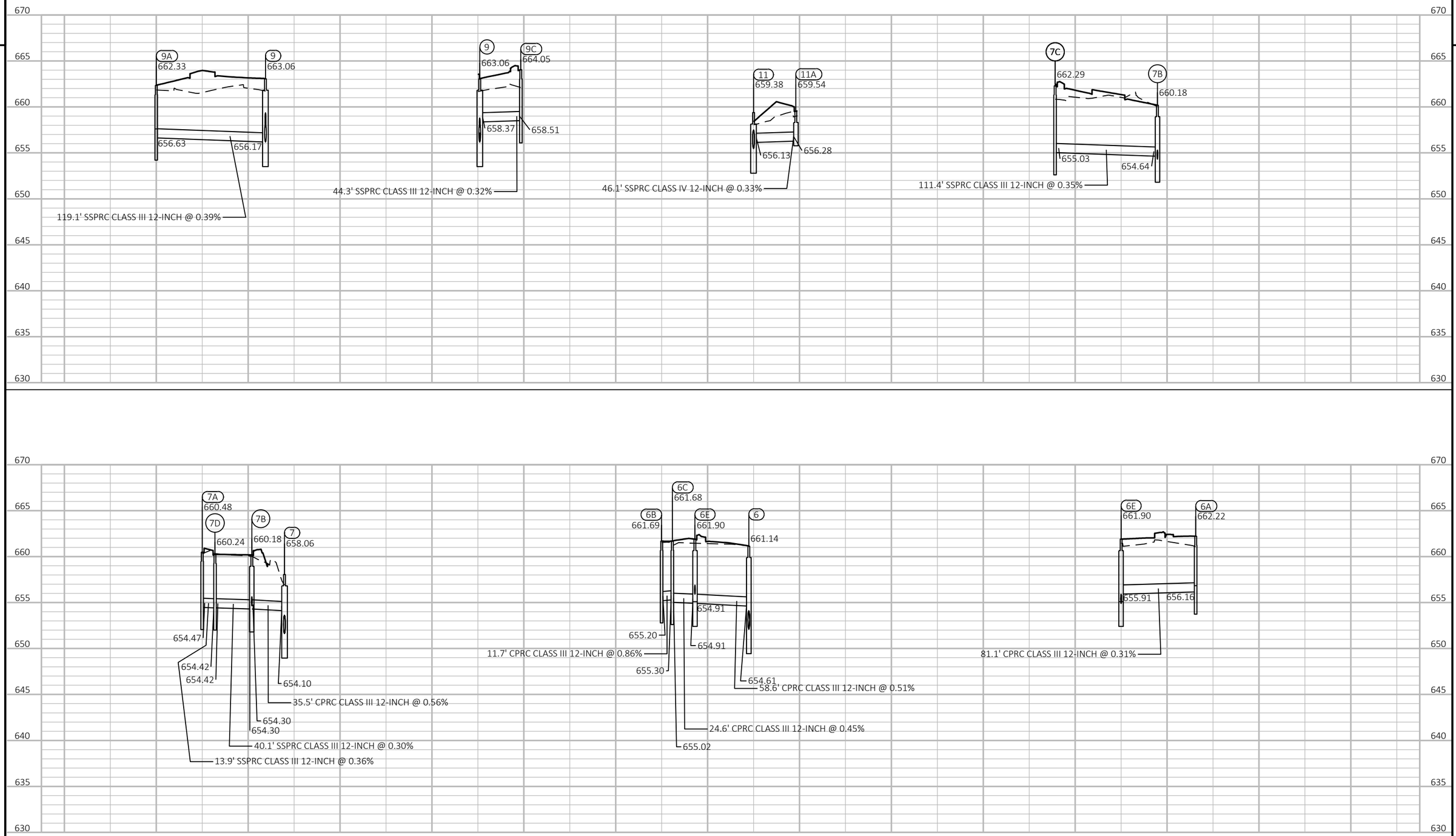
2


TEUTONIA AVE
92
94
SEE 2270-04-70
LANDSCAPING
PLAN FOR
MORE DETAILS
98
100
102
STH 57
RUTH PLACE
40
42
44
46
48
50
52
54
56
58
60
62
64
66
68
70
72
74
76
78
80
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112
114
116
118



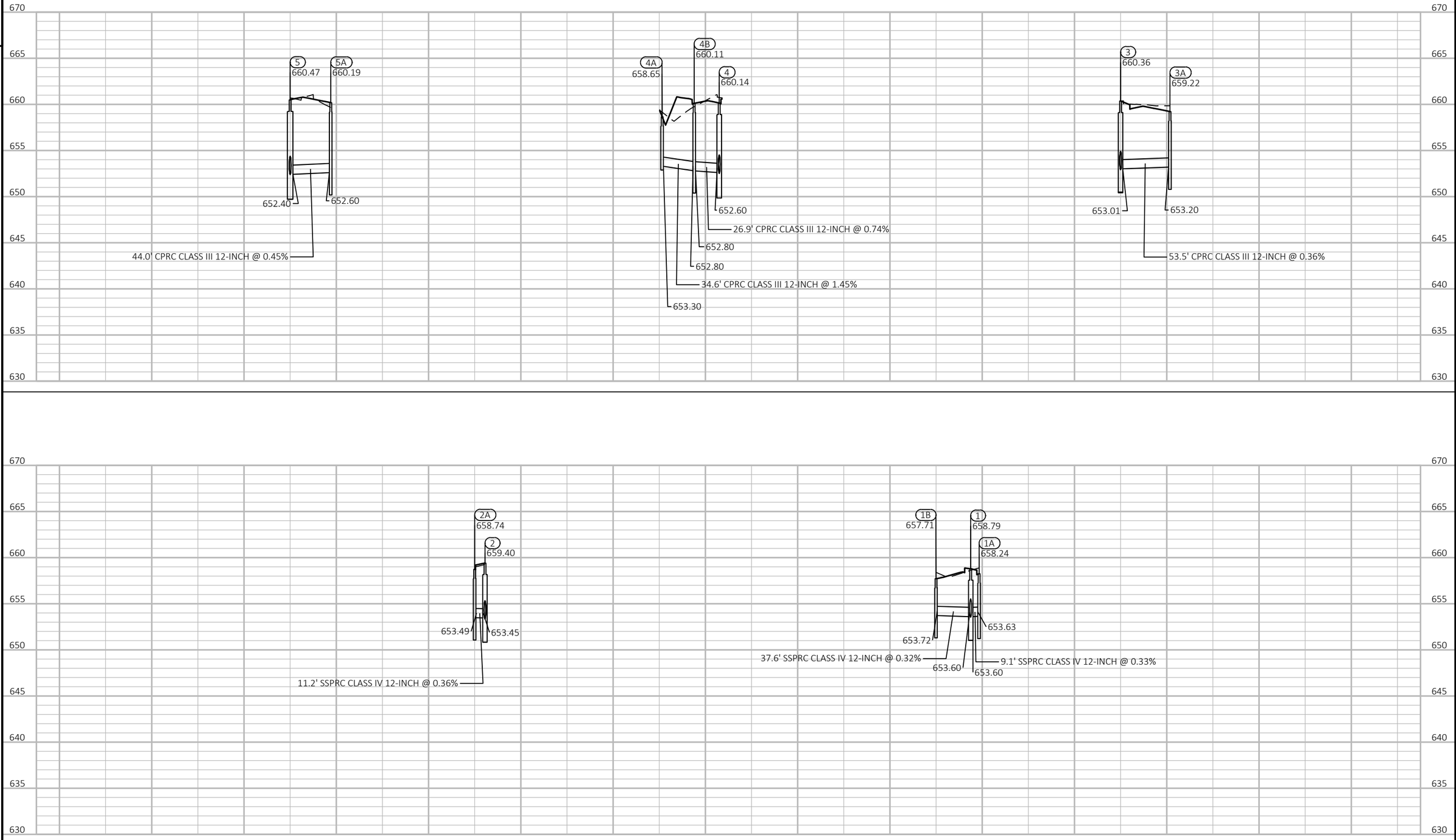


PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	STORM SEWER	SHEET 27	E



PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	STORM SEWER	SHEET 28	E

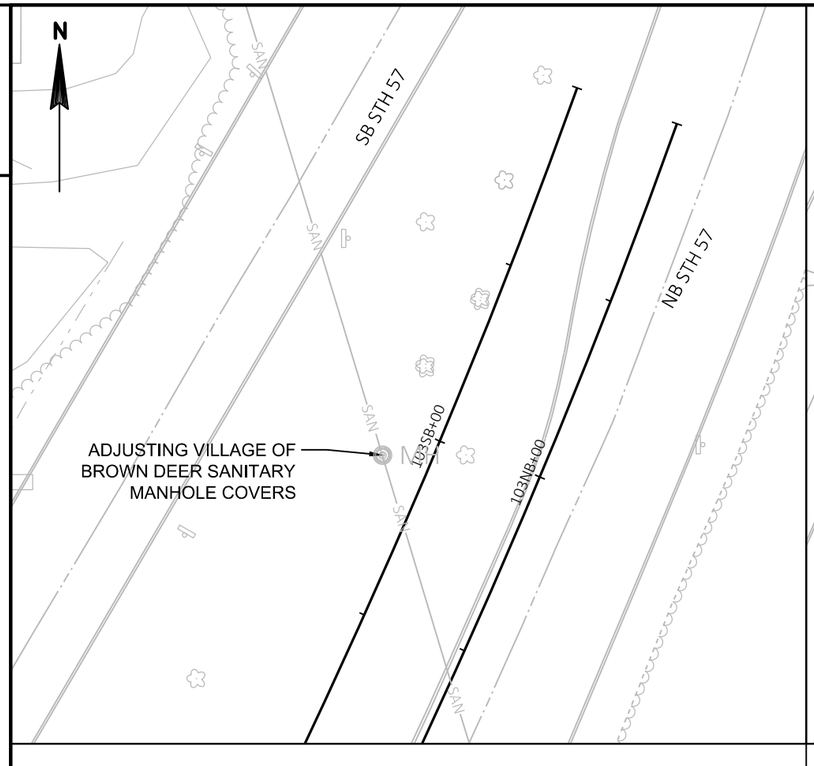
2

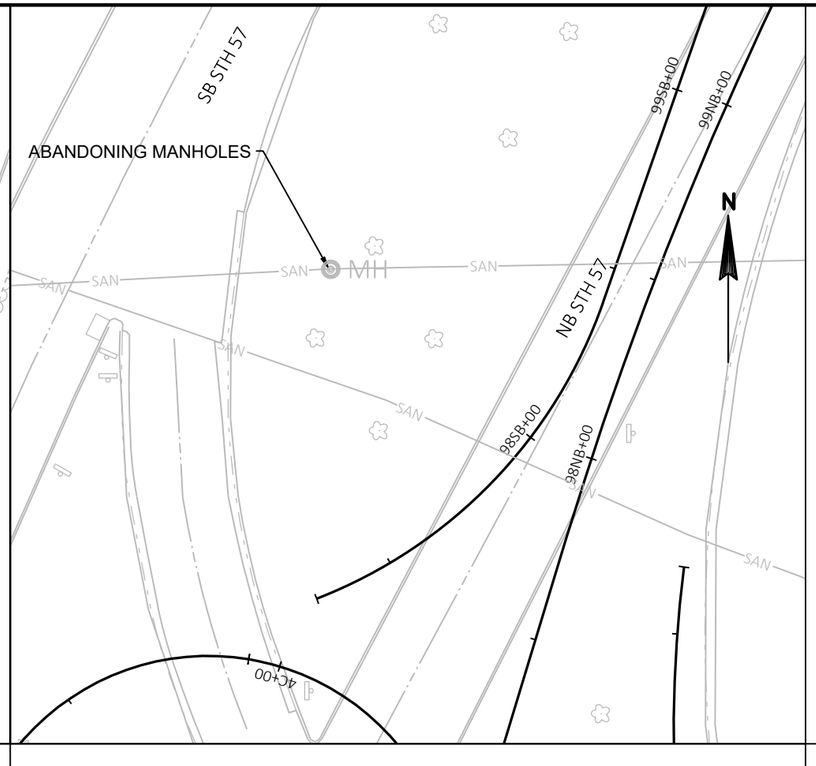


PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	STORM SEWER	SHEET 29	E

FILE NAME : L:\DESIGN PROJECTS\2565-07-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\022501_SS.DWG
LAYOUT NAME - 022501_SS (3)

PLOT DATE : 4/29/2021 3:47 PM PLOT BY : TONY BUBLITZ PLOT NAME : PLOT SCALE : ############

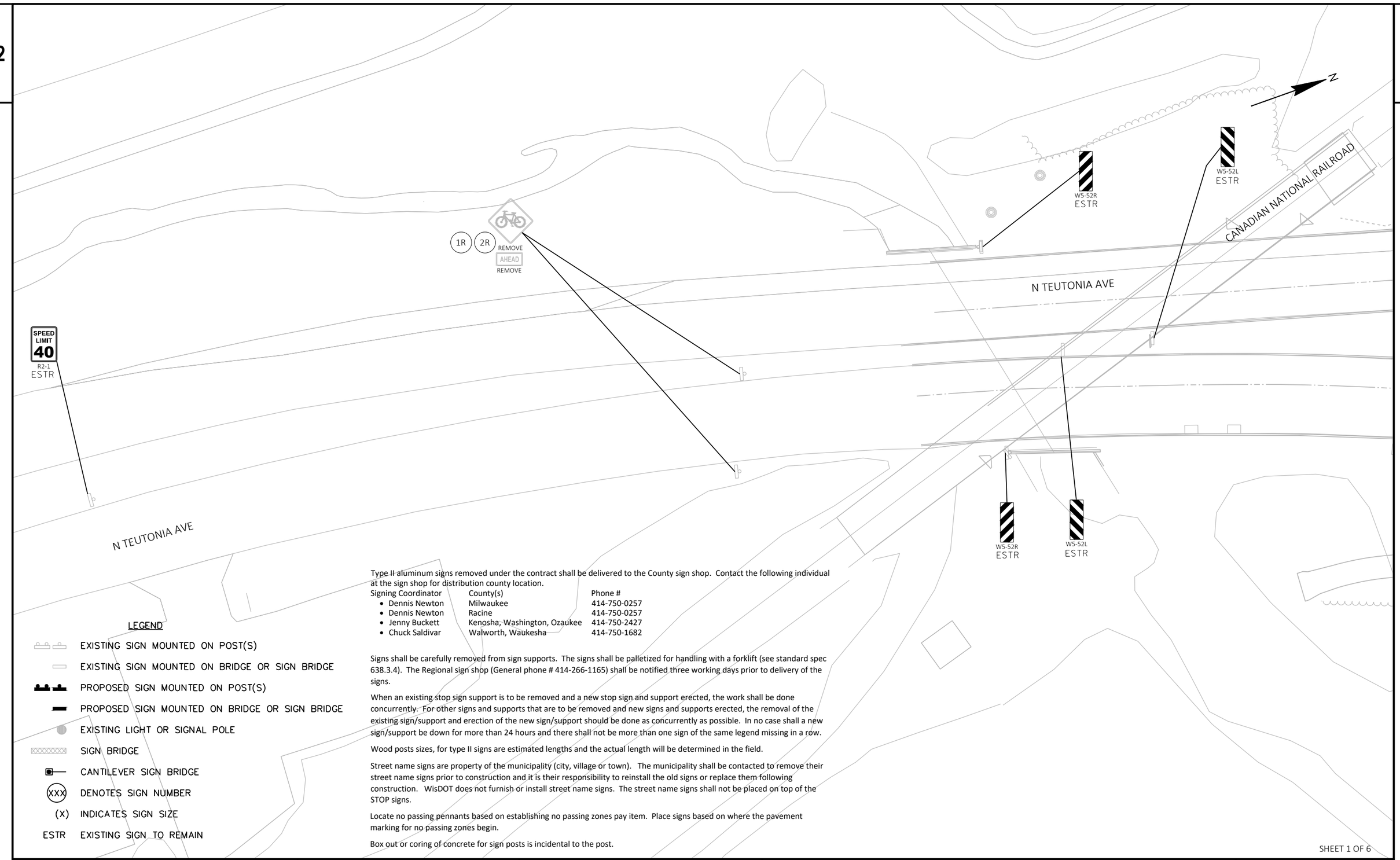




2

PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	UTILITY PLAN	SHEET 30	E

2



LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

Type II aluminum signs removed under the contract shall be delivered to the County sign shop. Contact the following individual at the sign shop for distribution county location.

Signing Coordinator	County(s)	Phone #
• Dennis Newton	Milwaukee	414-750-0257
• Dennis Newton	Racine	414-750-0257
• Jenny Buckett	Kenosha, Washington, Ozaukee	414-750-2427
• Chuck Saldivar	Walworth, Waukesha	414-750-1682

Signs shall be carefully removed from sign supports. The signs shall be palletized for handling with a forklift (see standard spec 638.3.4). The Regional sign shop (General phone # 414-266-1165) shall be notified three working days prior to delivery of the signs.

When an existing stop sign support is to be removed and a new stop sign and support erected, the work shall be done concurrently. For other signs and supports that are to be removed and new signs and supports erected, the removal of the existing sign/support and erection of the new sign/support should be done as concurrently as possible. In no case shall a new sign/support be down for more than 24 hours and there shall not be more than one sign of the same legend missing in a row.

Wood posts sizes, for type II signs are estimated lengths and the actual length will be determined in the field.

Street name signs are property of the municipality (city, village or town). The municipality shall be contacted to remove their street name signs prior to construction and it is their responsibility to reinstall the old signs or replace them following construction. WisDOT does not furnish or install street name signs. The street name signs shall not be placed on top of the STOP signs.

Locate no passing pennants based on establishing no passing zones pay item. Place signs based on where the pavement marking for no passing zones begin.

Box out or coring of concrete for sign posts is incidental to the post.

PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	SIGNING REMOVAL PLAN	SHEET 31	E

FILE NAME : C:\CIVIL 3D PROJECTS\25650700\SIGN\023101_RM_16.DWG
LAYOUT NAME - 023101_PS
PLOT DATE : 1/5/2021 1:00 PM
PLOT BY : MARTENS, KAREN L
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

OAK LEAF TRAIL
MOVE
SEE PERMANENT SIGNING PLAN

5R NO MOTOR VEHICLES REMOVE

4R STOP REMOVE

6R REMOVE

REMOVE

REMOVE

7R

REMOVE

23R SPEED LIMIT 40 REMOVE

21R 22R REMOVE

AHEAD REMOVE

20R Teutonia Ave REMOVE

N TEUTONIA AVE

BP: 94+94.25

8R 9R STOP REMOVE

16R 17R STOP REMOVE

TRAFFIC FROM RIGHT DOES NOT STOP REMOVE

96+00

ALTERNATE SOUTH ALTERNATE 43 REMOVE

18R

SOUTH 57 REMOVE

19R

98+00

N TEUTONIA AVE

JCT 57 REMOVE

3R

Green Bay Rd REMOVE

10R REMOVE

REMOVE

11R REMOVE

REMOVE

STOP REMOVE

13R

OAK LEAF TRAIL
MOVE
SEE PERMANENT SIGNING PLAN

12R NO MOTOR VEHICLES REMOVE

NORTH 57 SOUTH 57 REMOVE

14R

15R ONE WAY REMOVE

DO NOT ENTER REMOVE
INCLUDED WITH STOP SIGN

SEE SHEET 6 OF 6

STH 57 (N GREEN BAY RD)

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

SHEET 2 OF 6

PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	SIGNING REMOVAL PLAN	SHEET 32	E

FILE NAME : C:\CIVIL 3D PROJECTS\25650700\SIGN\023101_RM_16.DWG
LAYOUT NAME - 023102_PS

PLOT DATE : 1/5/2021 1:00 PM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

25R SPEED LIMIT 40 REMOVE

SOUTH 57 26R 27R REMOVE

ALTERNATE SOUTH INTERSTATE 43 28R REMOVE

29R NO PARKING ANY TIME REMOVE

30R 31R REMOVE 57 REMOVE

24R REMOVE

STH 57 (N GREEN BAY RD)

98+00

100+00

PC: 101+31.05

102+00

104+00

32R REMOVE

BUS STOP MOVE BY MCTS

ALTERNATE NORTH INTERSTATE 43 34R REMOVE

33R REMOVE

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

SHEET 3 OF 6

PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	SIGNING REMOVAL PLAN	SHEET 33	E

2

2

N

RUTH PL

STH 57 (N GREEN BAY RD)

104+00

106+00

108+00

SEE PROJECT ID 2270-04-70

STH 57 (N GREEN BAY RD)

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

SHEET 4 OF 6

PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	SIGNING REMOVAL PLAN	SHEET 34	E

FILE NAME : C:\CIVIL 3D PROJECTS\25650700\SIGN\023101_RM_16.DWG
LAYOUT NAME - 023104_PS

PLOT DATE : 1/5/2021 1:00 PM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

35R STOP REMOVE

N CEDARBURG RD

NO PARKING ANY TIME R7-1D ESTR

36R REMOVE

38R RIGHT LANE ENDS REMOVE

STH 57 (N GREEN BAY RD)

SEE SHEET 6 OF 6

STH 57 (N GREEN BAY RD)

STREET NAME SIGNS

R4-7 ESTR

37R REMOVE

STREET NAME SIGNS. REMOVE BY CITY. DO NOT REPLACE ON SAME POST AS STOP SIGN.

POST

POST

N GREEN BAY CT

39R STOP REMOVE

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

SHEET 5 OF 6

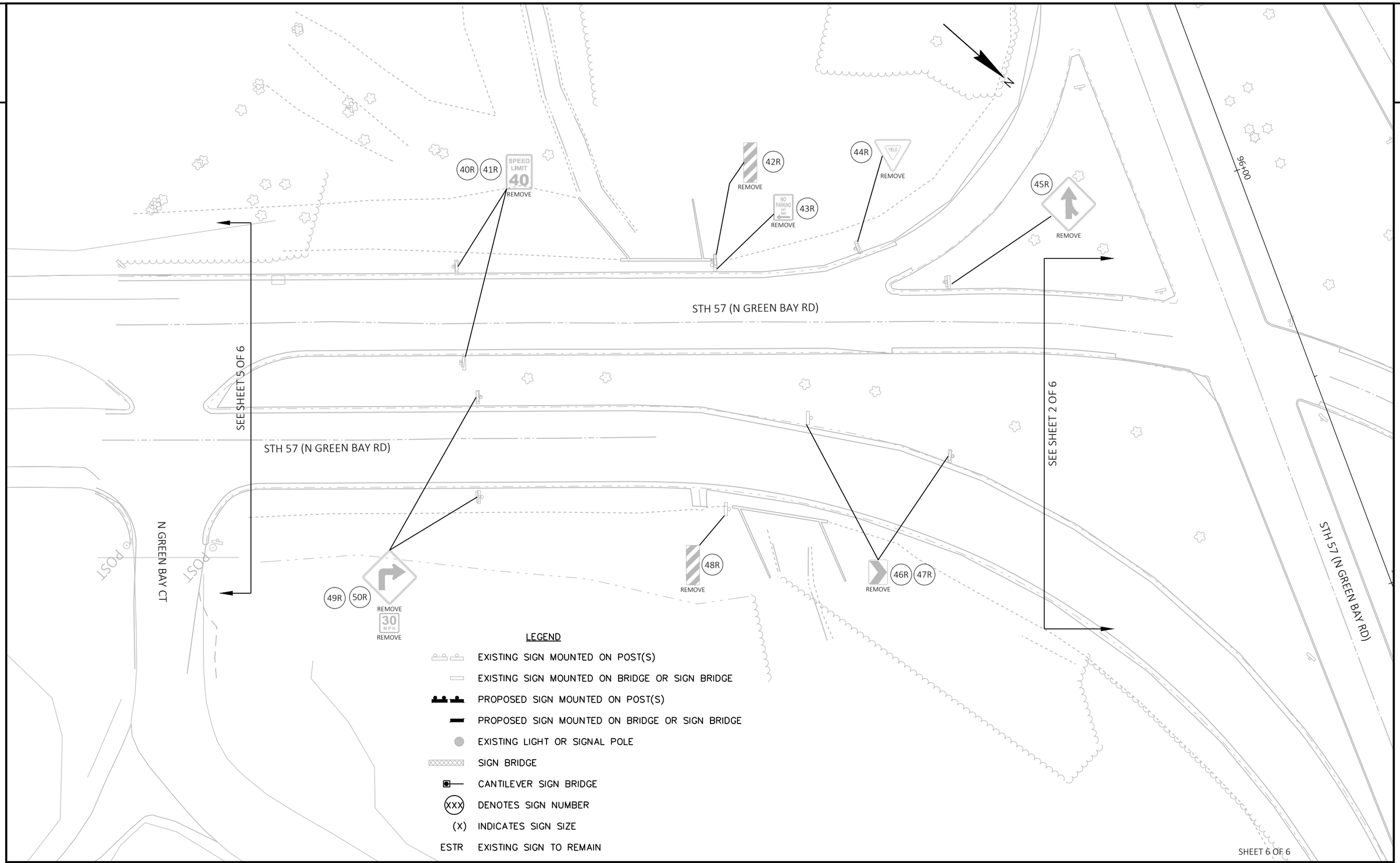
PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	SIGNING REMOVAL PLAN	SHEET 35	E

FILE NAME : C:\CIVIL 3D PROJECTS\25650700\SIGN\023101_RM_16.DWG
LAYOUT NAME - 023105_PS

PLOT DATE : 1/5/2021 1:00 PM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



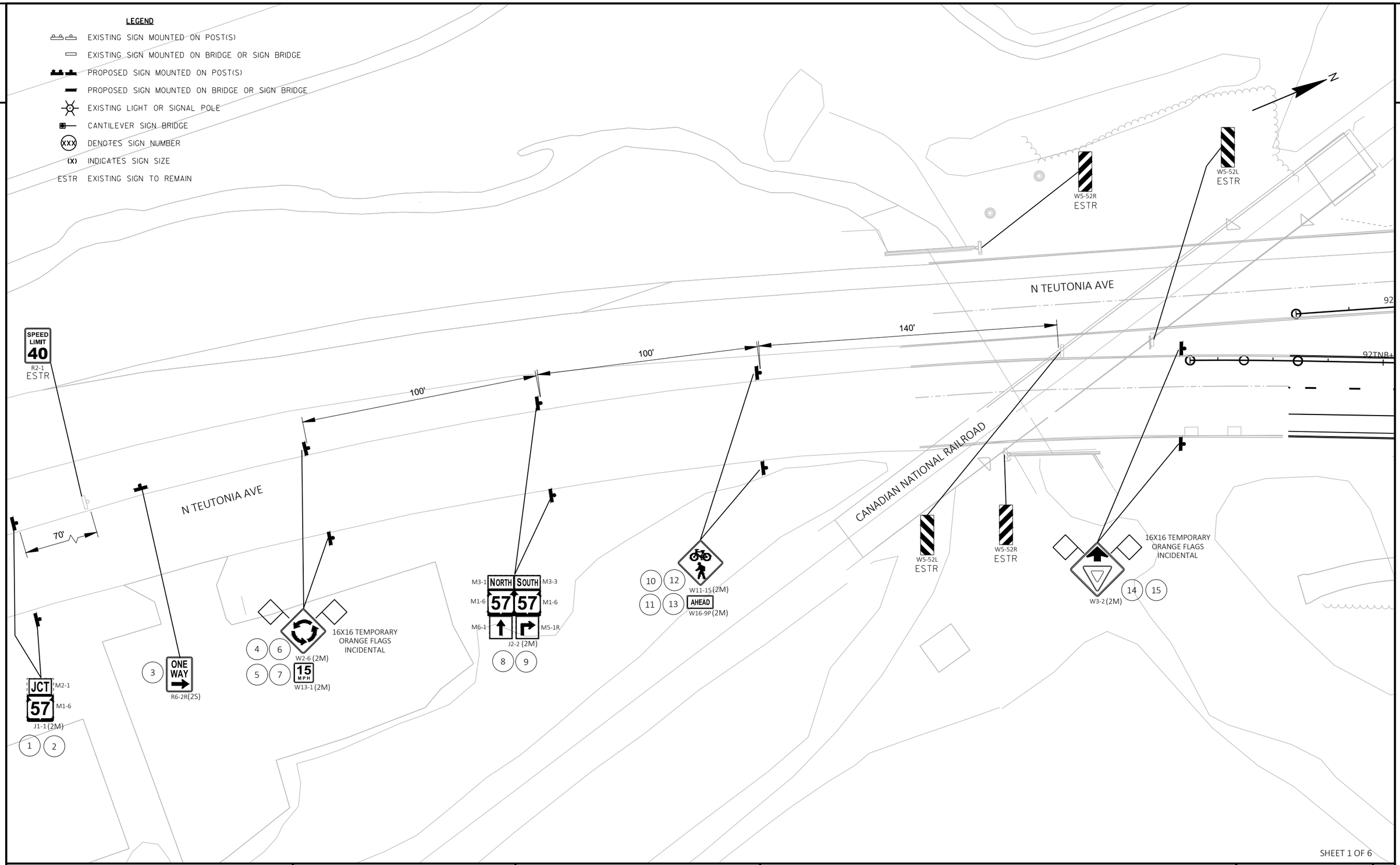
SHEET 6 OF 6

PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	SIGNING REMOVAL PLAN	SHEET 36	E

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN



SHEET 1 OF 6

PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 37	E

FILE NAME : C:\CIVIL 3D PROJECTS\25650700\SIGN\023201_PS_16.DWG
LAYOUT NAME - 030201_PS_PS

PLOT DATE : 3/18/2021 7:46 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

N TEUTONIA AVE

92TSB+00 93TSB+00 94TSB+00 95TSB+00

92TNB+00 93TNB+00 94TNB+00 95TNB+00

CANTILEVER OVERHEAD SIGN STRUCTURE
S-40-669
STA 92TNB+00

16 M3-1 NORTH SOUTH M3-3 / M1-6 57 57 M1-6 / M6-1 M6-1 J3-2 (2M)

17 R3-5A (2M) ONLY MOUNT ON MAST ARM

18 R3-6R (2M) MOUNT ON MAST ARM

19 N Green Bay Rd MOUNT ON MAST ARM

20 M3-1 NORTH SOUTH M3-3 / M1-6 57 57 M1-6 / M6-1 J3-2 (2M) MOUNT ON UPRIGHT

21 22 SPEED LIMIT 40 R2-1(2M)

23 COUNTY D M1-5A(2M)

24 R1-6 (2M) 2' MOUNT HEIGHT

25 OAK LEAF TRAIL MOVE

26 NO MOTOR VEHICLES R5-3(2S)

27 W11-15(2M)

28 W16-7L (2M)

29 D N Teutonia Ave D1-2

30 16X16 TEMPORARY ORANGE FLAGS INCIDENTAL YIELD R1-2(2S)

31 ONE WAY R6-2R(2S)

32 16X16 TEMPORARY ORANGE FLAGS INCIDENTAL YIELD R1-2(2S)

33 TO TRAFFC FROM LEFT R1-54 (2S)

131 W11-15(2M)

132 W16-7L (2M)

133 R1-6 (2M) 2' MOUNT HEIGHT

34 36 38 ONE WAY R6-1R (2S)

35 37 39 R6-4B (2S)

134 R1-6 (2M) 2' MOUNT HEIGHT

47 R1-6 (2M) 2' MOUNT HEIGHT

45 OAK LEAF TRAIL MOVE

46 NO MOTOR VEHICLES R5-3(2S)

49 W11-15(2M)

50 W16-7L(2M)

16X16 TEMPORARY ORANGE FLAGS INCIDENTAL

43 YIELD R1-2(2S)

44 ONE WAY R6-2R(2S)

41 YIELD R1-2(2S)

42 TO TRAFFIC FROM LEFT R1-54 (2S)

16X16 TEMPORARY ORANGE FLAGS INCIDENTAL

137 W11-15(2M)

138 W16-7L (2M)

40 57 NORTH / N Green Bay Rd / TO Ruth Pl D1-2

N GREEN BAY RD / STH 57

SEE SHEET 6 OF 6

40EB+00 40WB+00 1+00 2+00 3+00 4+00 98SB+00 98NB+00

SHEET 2 OF 6

PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 38	E

FILE NAME : C:\CIVIL 3D PROJECTS\25650700\SIGN\023201_PS_16.DWG
LAYOUT NAME - 030202_PS_PS

PLOT DATE : 3/18/2021 7:46 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

CANTILEVER OVERHEAD SIGN STRUCTURE
S-40-3090
STA 101SB+00

N GREEN BAY RD / STH 57

99SB+00 100SB+00 101SB+00 102SB+00 103SB+00 103+00 104+00
99NB+00 100NB+00 101NB+00 102NB+00 103NB+00

51 ALTERNATE MB4-1 / SOUTH MB3-3 / INTERSTATE 43 M1-1 / MB6-1 — J3-1 (2M)

52 54 53 55 — W11-15 (2M) / AHEAD W16-9P (2M)

56 SOUTH 57 COUNTY D — M1-6 M1-5A M6-1 M6-1 — J3-2 (2M)

58 ONLY — R3-5A (2M) MOUNT ON MAST ARM

59 — R3-6X (2M) MOUNT ON MAST ARM

57 N Green Bay Rd — MOUNT ON MAST ARM

60 SOUTH 57 SOUTH COUNTY D — M1-6 M1-5A M6-1 M6-1 — J3-2 (2M) MOUNT ON UPRIGHT

61 62 — W3-2 (2M) — 16X16 TEMPORARY ORANGE FLAGS INCIDENTAL

63 NO PARKING ANY TIME — R7-1D (2M)

64 D N Teutonia Ave / 57 SOUTH N Green Bay Rd — D1-62

BUS STOP — MOVE BY MCTS

74 NORTH 57 — M3-1 M1-6 — J4-1 (2M)

73 — W4-2R (2M)

SPEED LIMIT 40 — R2-1 (2M) — 71 72

67 69 68 70 — W11-2 (2M) / AHEAD W16-9P (2M)

66 ALTERNATE MB4-1 / NORTH MB3-1 / INTERSTATE 43 M1-1 / MB6-1 — J3-1 (2M)

65 NO PARKING ANY TIME — R7-1D (2M)

SHEET 3 OF 6

PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 39	E

FILE NAME : C:\CIVIL 3D PROJECTS\25650700\SIGN\023201_PS_16.DWG
LAYOUT NAME - 030203_PS_PS

PLOT DATE : 3/18/2021 7:46 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

16X16 TEMPORARY ORANGE FLAGS INCIDENTAL

W2-6 (2M) 75 77

W13-1(2M) 15 MPH 76 78

M2-1 JCT

M1-5A COUNTY D 79 80

J1-1 (2M)

RUTH PL

N GREEN BAY RD / STH 57

104+00 105+00 106+00 107+00 108+00 109+00

SEE PROJECT ID 2270-04-70

N

SHEET 4 OF 6

PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 40	E

FILE NAME : C:\CIVIL 3D PROJECTS\25650700\SIGN\023201_PS_16.DWG
LAYOUT NAME - 030204_PS_PS

PLOT DATE : 3/18/2021 7:46 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

81 STOP R1-1 (3)

82 DIVIDED HIGHWAY R6-3A (2S)

N CEDARBURG RD

83 DO NOT ENTER R5-1 (2M)

NO PARKING ANY TIME R7-1D ESTR

STREET NAME SIGNS

N GREEN BAY RD / STH 57

100'

200'

35'

92 ONE WAY R6-2L(2S)

94 95 R4-7(2M)

SEE SHEET 6 OF 6

R4-7 ESTR

85 ONE WAY R6-2L(2S)

16X16 TEMPORARY ORANGE FLAGS INCIDENTAL

86 88 87 89 W2-6 (2M) 15 MPH W13-1 (2M)

M1-5A NORTH M3-1 COUNTY D 57 M1-6 M5-1L M5-1R J2-2 (2M)

90 91

16X16 TEMPORARY ORANGE FLAGS INCIDENTAL

99 100 W3-2 (2M)

98 DO NOT ENTER R5-1 (2M)

POST

POST

N GREEN BAY CT

96 STOP R1-1 (3)

97 DIVIDED HIGHWAY R6-3A (2S)

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

SHEET 5 OF 6

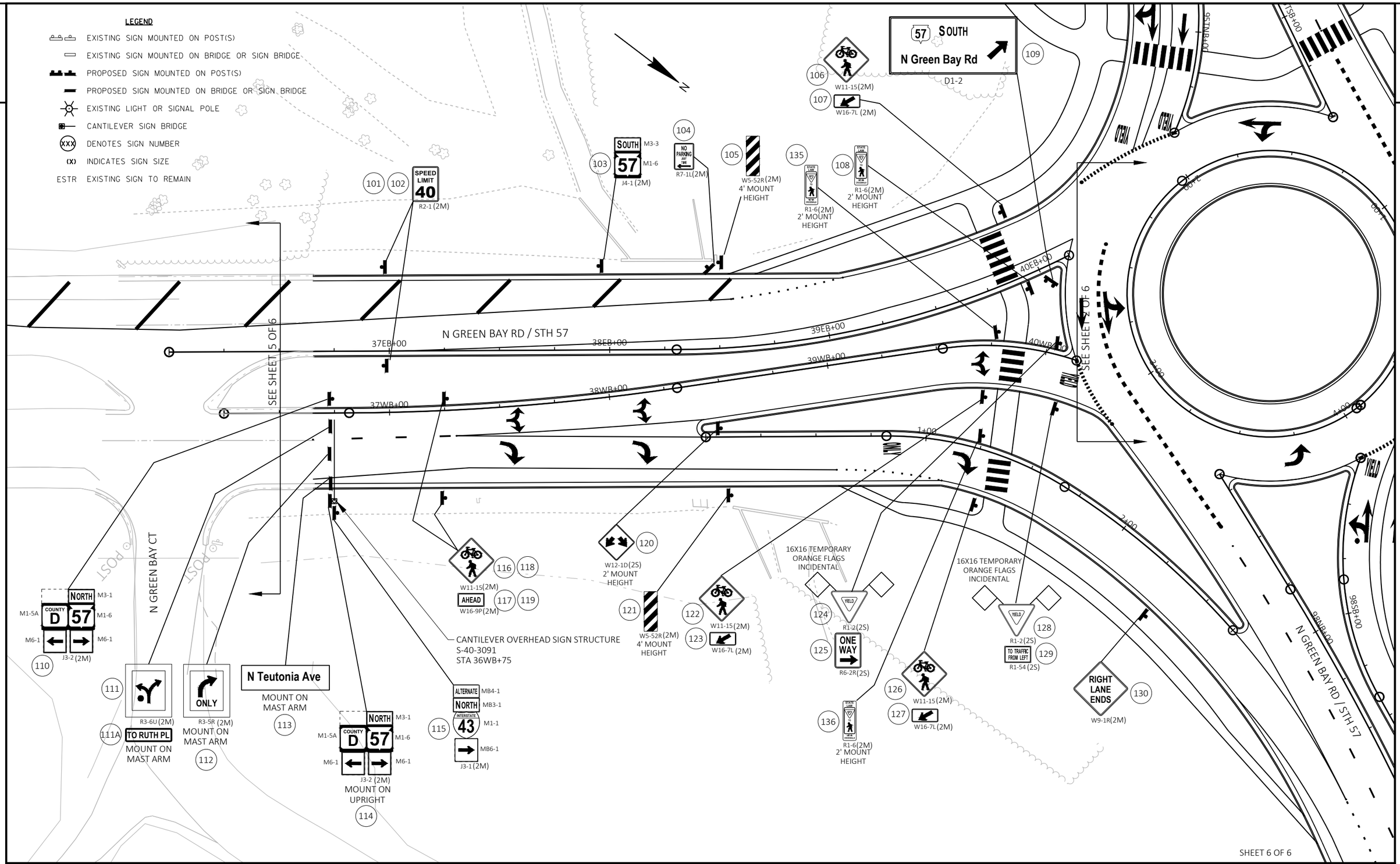
PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 41 E

FILE NAME : C:\CIVIL 3D PROJECTS\25650700\SIGN\023201_PS_16.DWG
LAYOUT NAME - 030205_PS_PS
PLOT DATE : 3/18/2021 7:47 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN



SHEET 6 OF 6

PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 42	E

FILE NAME : C:\CIVIL 3D PROJECTS\25650700\SIGN\023201_PS_16.DWG
LAYOUT NAME - 030206_PS_PS

PLOT DATE : 3/18/2021 7:47 AM PLOT BY : MARTENS, KAREN L PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

GENERAL NOTES

DETAILS OF CONSTRUCTION MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

THE CONTRACTOR IS RESPONSIBLE FOR NOT BACKFEEDING CIRCUITS PRIOR TO DISCONNECTING ANY BRANCH CIRCUITS FROM OLD SOURCE.

LOCATIONS OF THE PVC CONDUITS ARE IDENTIFIED IN THE PLANS WHERE THEY ARE REQUIRED. APPROPRIATE ADJUSTMENT ON CONDUIT LOCATIONS MAY BE MADE IF THE FIELD CONDITIONS ARE SUCH THAT THE CONDUIT CANNOT BE INSTALLED AT THE SPECIFIED LOCATIONS. FIELD MARK EACH CONDUIT LOCATION IN RED.

ALL CONDUITS SHALL BE CAPPED OR PLUGGED WITH ENGINEER APPROVED FITTINGS IMMEDIATELY AFTER INSTALLATION. THE TRENCH SHALL NOT BE BACK FILLED PRIOR TO INSPECTION OF THE CONDUIT.

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR IMMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT. ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON ALL CONDUITS.

PRIOR TO CONDUIT ACCEPTANCE, ALL CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND BE CAPPED WITH THE APPROPRIATE CAST PLASTIC CAP WHICH FITS SNUGGLY ON THE CONDUIT, BUT EASILY REMOVED IN THE FUTURE. DUCT TAPE OR ANY OTHER CAPPING METHOD IS NOT ACCEPTABLE.

CONDUIT RUNS SHALL BE THE SAME SIZE PIPE FROM ONE END TO THE OTHER (FROM PULL BOX-TO-PULL BOX OR JUNCTION BOX OR BASE-TO-BASE, ETC.) UNLESS OTHERWISE NOTED ON PLANS.

PULL ROPE (3/8-INCH NYLON) SHALL BE INSTALLED IN ALL NEW CONDUITS.

CONTRACTOR SHALL SUPPLY AS-BUILT DRAWING FOR ALL THE WORK BEING DONE.

INSTALLATION OF LATERAL UNDERGROUND CONDUIT UNDER PAVEMENT SHALL BE INSTALLED MINIMUM 30 INCHES BELOW PROPOSED GRADE AND A MINIMUM OF 3 INCHES BELOW ALL PAVEMENT BASE MATERIALS. CONDUIT LATERALS SHALL BE TRENCHED UNDER PAVEMENT BEFORE PAVEMENT CONSTRUCTION. CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH ROADWAY CONSTRUCTION FOR CONDUIT LATERALS INSTALLATION.

PITCH ALL CONDUITS TOWARD PULL BOXES. INSTALL A 2" DRAIN DUCT TO STORM SEWER OR DRAIN SUMP AS REQUIRED FOR DRAINAGE. THE 2" DRAIN DUCT OR SUMP IS INCIDENTAL TO THE PULL BOX BID ITEM AND IS NOT SHOWN.

THE LOCATION OF EXISTING AND PROPOSED UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE, IN ADDITION, THERE MAY BE OTHER UTILITIES WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION.

HAND DIGGING MAY BE REQUIRED FOR LOCATIONS ADJACENT TO EXISTING GAS AND POWER LINES. HAND EXCAVATION SHOULD BE ANTICIPATED & WILL BE CONSIDERED INCIDENTAL TO THE CONCRETE BASES BID ITEM. COORDINATE ALL WORK NEAR GAS LINE WITH WE ENERGIES.

EXISTING CONDUIT AND CID NO LONGER BEING USED IS ABANDONED IN PLACE. THE CONTRACTOR MAY REMOVE ABANDONED WIRING AT THE CONTRACTOR'S EXPENSE. ABANDONED PULL BOX REMOVAL IS INCIDENTAL TO THE ROAD CONSTRUCTION.

DO NOT SPICE WIRES IN PULL BOX, ONLY SPLICE WIRES IN POLE.

SEE DETAIL "CONDUIT DETAILS AT STRUCTURE PARAPET TO ROADWAY BARRIER INTERFACE" WHEN CONDUIT EXITS TO GRADE FROM A BRIDGE PARAPET OR RETAINING WALL. RIGID METALLIC CONDUIT IN THE CONCRETE BARRIER IS INCIDENTAL TO THE RIGID NONMETALLIC CONDUIT.

PROVIDE MINIMUM CABLE SLACK AS NOTED BELOW:

PULL BOXES:	10-FT	LIGHTING CONTROL CENTERS:	10-FT
EMBEDDED JUNCTION BOXES:	3-FT	POLES:	5-FT IN AND 5-FT OUT

WIRE AND CONDUIT IS LISTED IN THE MISCELLANEOUS QUANTITIES BASED UPON THE EARLIEST STAGE SHOWN. CONTRACTOR MAY INSTALL LATER WHEN LOAD NEEDS TO BE ENERGIZED.

CONDUCTOR COLORS: 240/480V, 1 PHASE - BLACK / RED / WHITE (NEUTRAL) / BARE OR GREEN (GROUND)

WISCONSIN
PRASAD S. NARAYAN
E-26170
BROOKFIELD, WI.
PROFESSIONAL ENGINEER

4/23/21

LEGEND - FINAL LIGHTING

- EXISTING CONDUIT
- 2" CONDUIT - OTHER SIZE AS NOTED IN PLAN
- PROPOSED SINGLE ARM FREEWAY LIGHTING UNIT
- LIGHTING CONTROL CABINET
- PULL BOX 24" x 36"
- PULL BOX 24" x 42"
- ELECTRIC METER SOCKET
- EX EXISTING
- SM DENOTES STRUCTURE MOUNTED
- STUBOUT

LUMINAIRE IDENTIFICATION

STATION - OFFSET (TWO CALLOUTS IF TWIN)
LED-C-X(T)-4-XYYZ

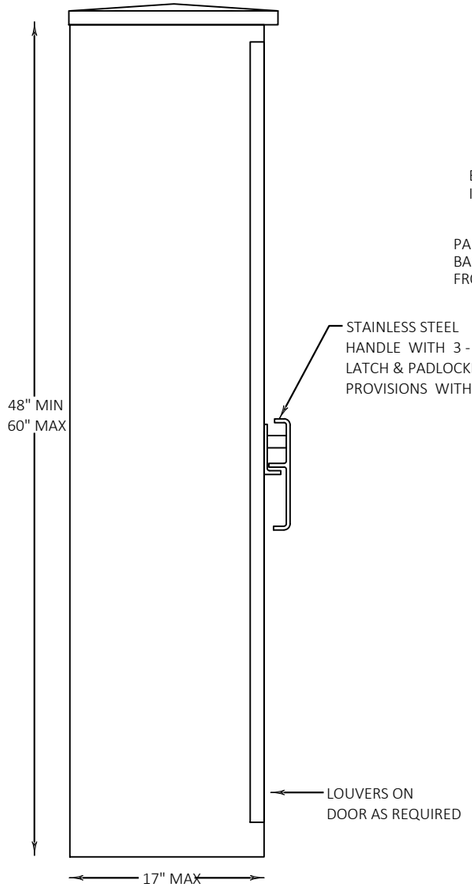
- LUMINAIRE NUMBER
- LIGHTING CONTROL CABINET
- CIRCUIT

} PLAQUE SEQUENCE IDENTIFICATION

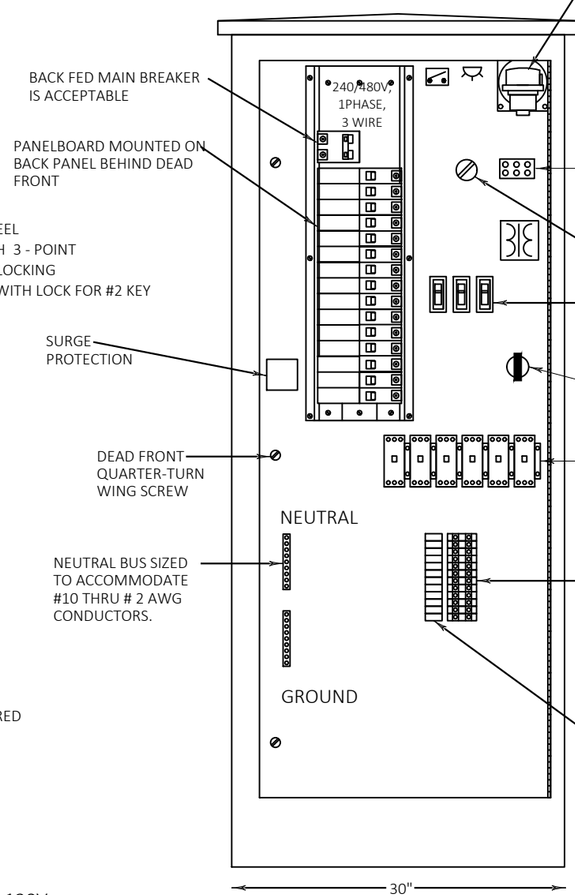
- LUMINAIRE ARM LENGTH
- POLE TYPE, (T) WITH TRANSFORMER BASE BREAKAWAY
- LUMINAIRE UTILITY CATEGORY
- LUMINAIRE TYPE SOURCE

PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	LIGHTING PLAN - SCHEMATIC	SHEET 43 E

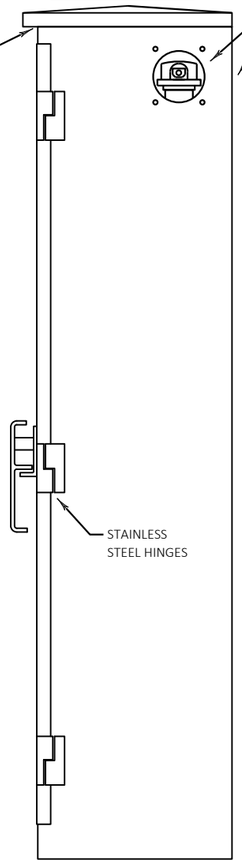
LEFT SIDE VIEW

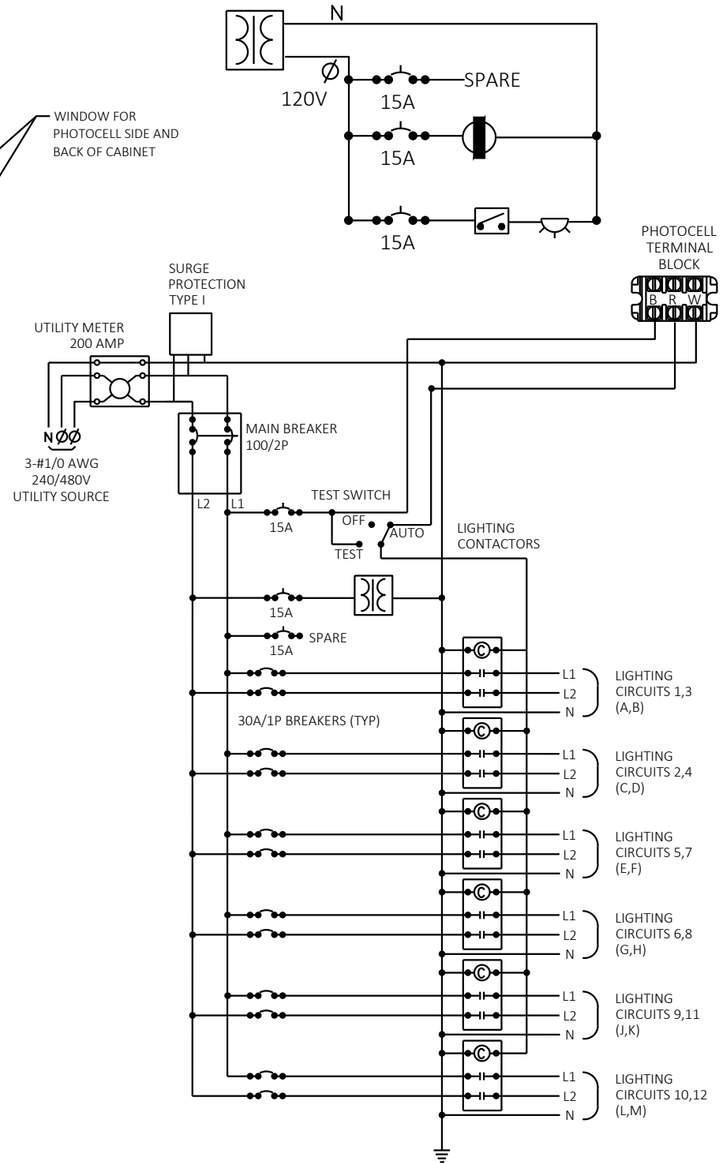


FRONT INTERIOR
ELEVATION



RIGHT SIDE VIEW





LIGHTING CONTROL CABINET SCHEMATIC

240/480 VOLT
LIGHTING CONTROL
CABINET POV-WISDOT
240/480

LEGEND:

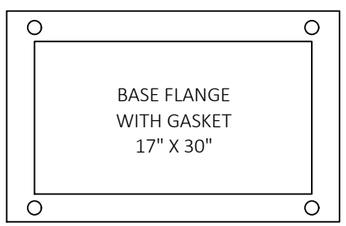
15AMP GFCI DUPLEX RECEPTACLE WITH COVER, 120V,

1.5KVA, SINGLE PHASE ENCAPSULATED TRANSFORMER 240//120V, 60HZ

SPST, 20AMP SWITCH ON DOOR, TO TURN LIGHT ON WHEN DOOR IS OPEN.

INCANDESCENT LIGHTING FIXTURE 60WATT, 120V LAMP.

15AMP/1P CIRCUIT BREAKER, 120V



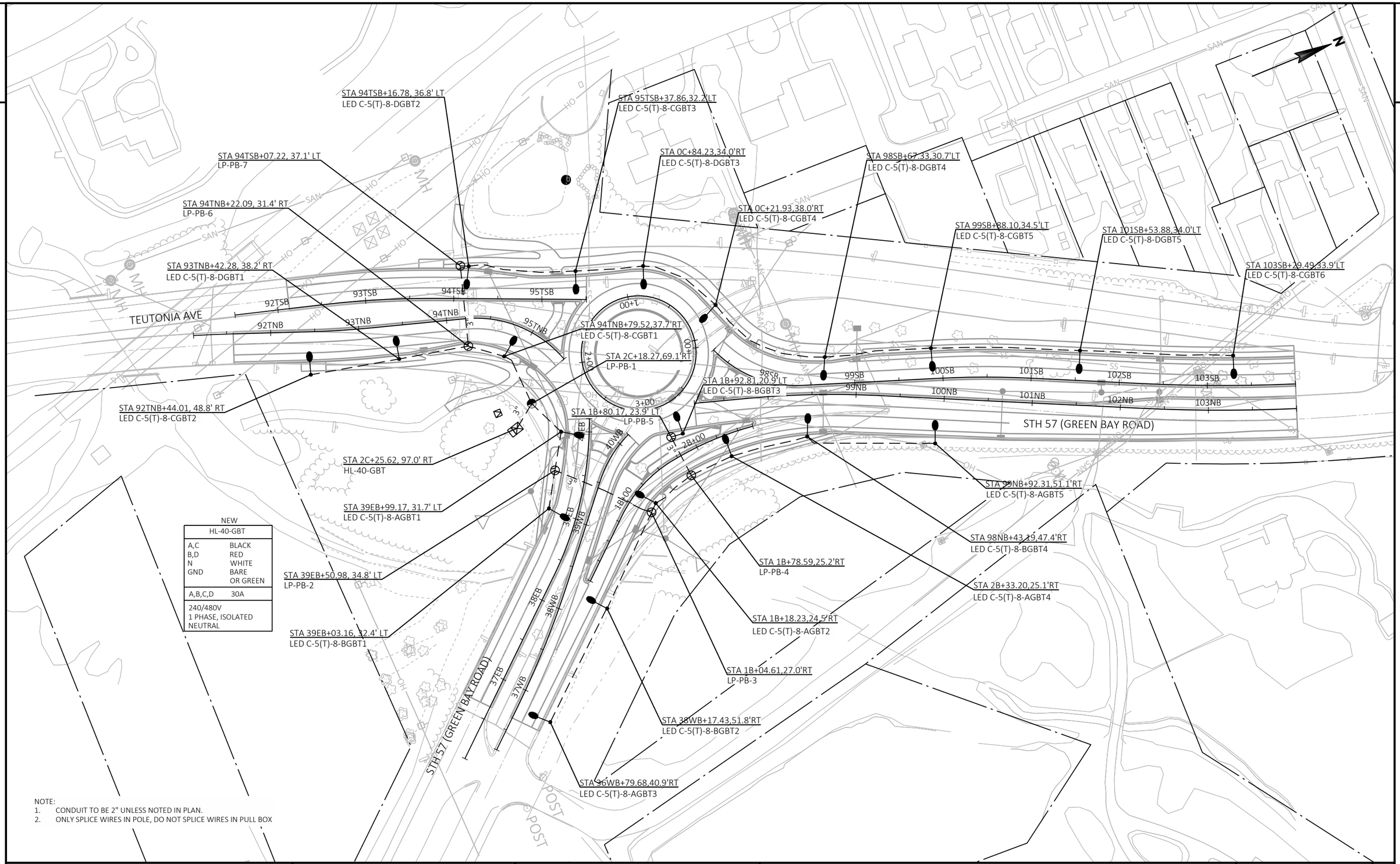
PANELBOARD:
- 30 CIRCUIT MIN.
- 100AMP MAIN CIRCUIT BREAKER
- COPPER BUS
- BOLT- ON BREAKERS
- 22K AIC
- (2) 15A/1P CONTROL BREAKER, 240V
- (1) 15A/1P CONTROL BREAKER, 240V, SPARE
- (12) 30A/1P BRANCH BREAKERS

BOX CONSTRUCTION:
- NEMA3R
- UL LISTED
- -1/8" ALUMINUM 5052-H32 ANODIZED CLEAR
- BENT CONSTRUCTION - ONE PIECE SIDES AND BACK
- NEOPRENE GASKETED DOORS
- STAINLESS STEEL HARDWARE
- ETL LISTED IN ACCORDANCE W/ UL508A

DETAIL - DISTRIBUTION CENTER - DOT

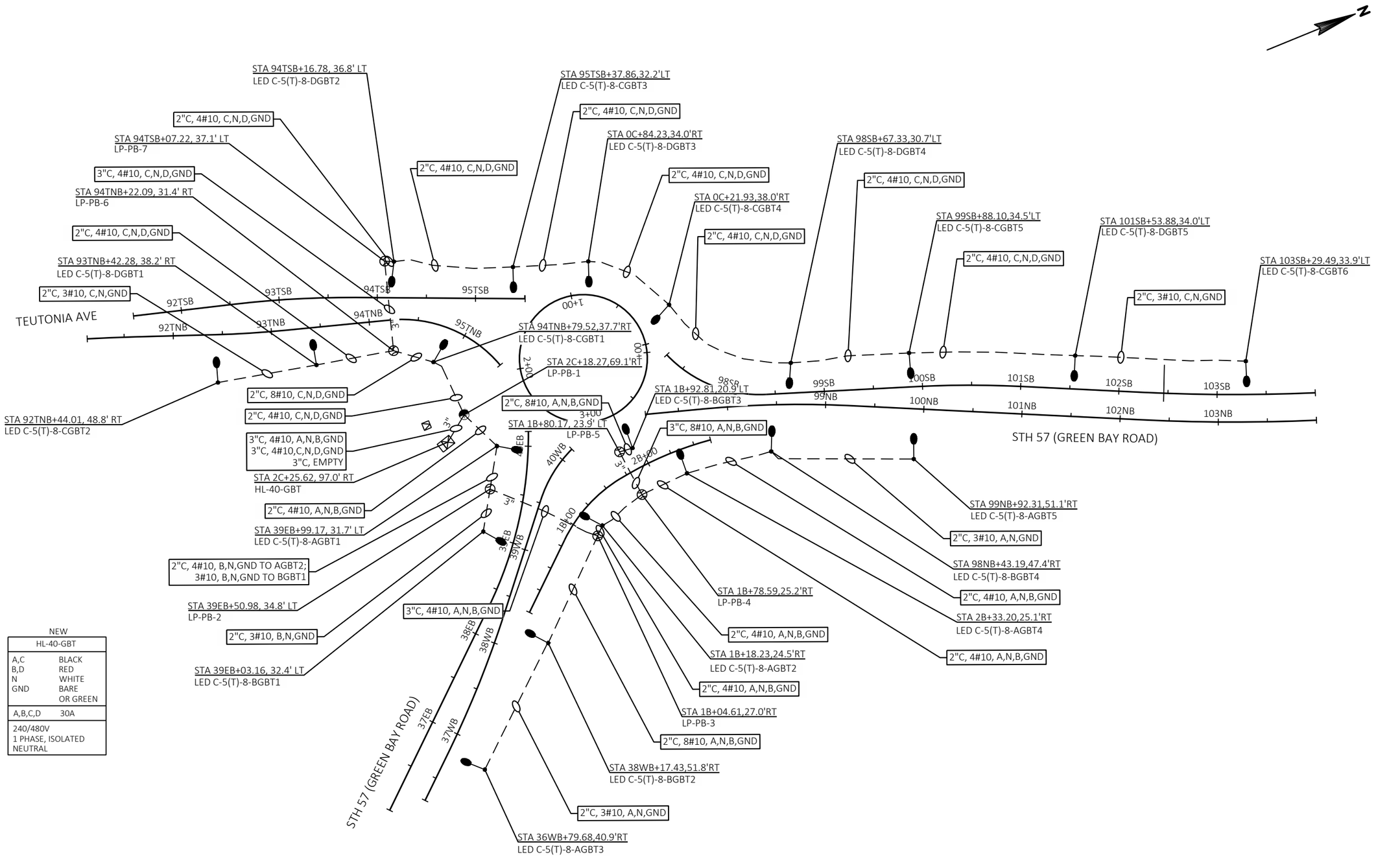
240/480 VOLT LIGHTING CONTROL CABINET POV-WISDOT 240/480

PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE & OZAUKEE	LIGHTING PLAN - DETAIL	SHEET 44 E



PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	LIGHTING PLAN	SHEET 45	E

2



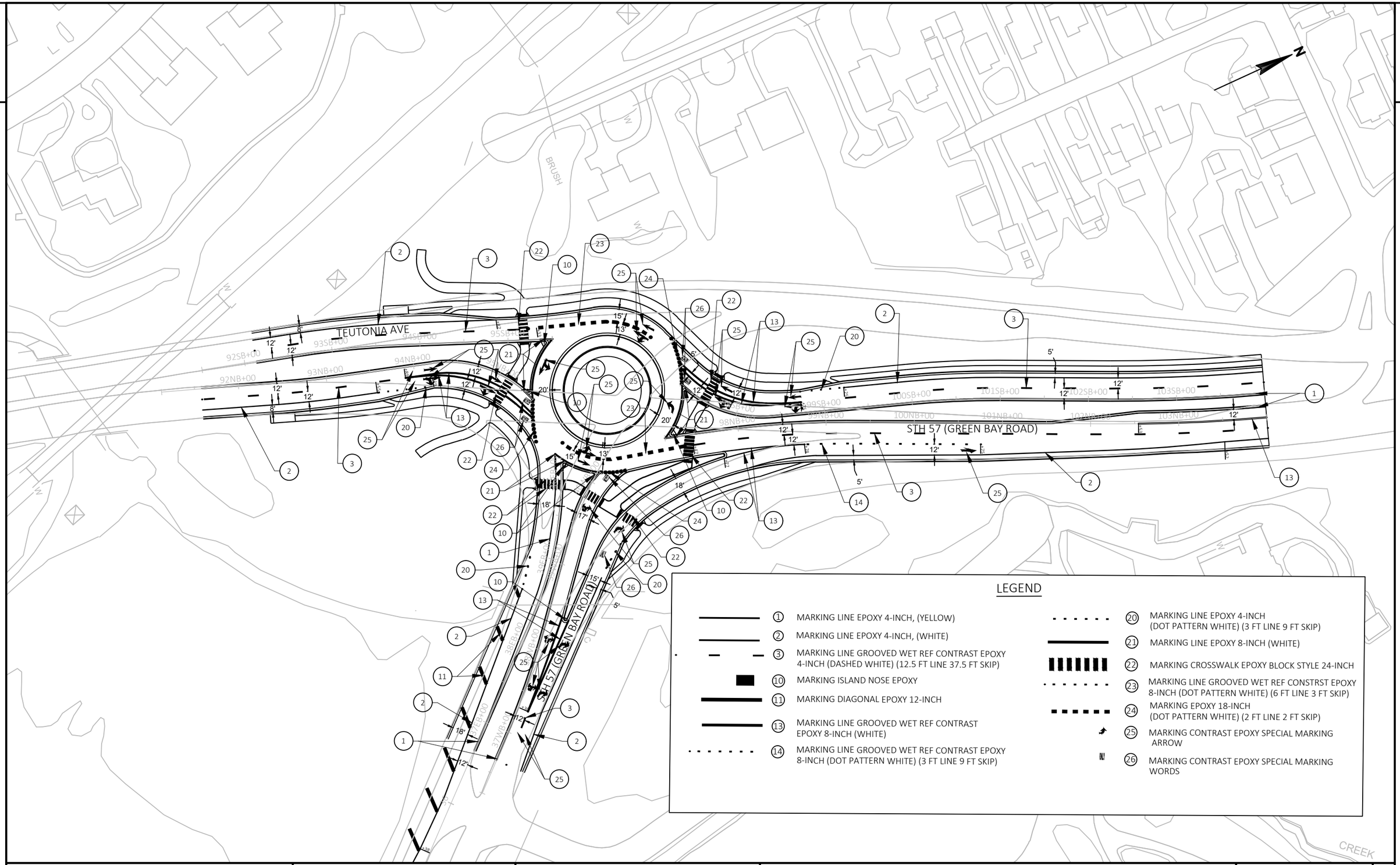
NEW

HL-40-GBT	
A,C	BLACK
B,D	RED
N	WHITE
GND	BARE OR GREEN
A,B,C,D	30A
240/480V 1 PHASE, ISOLATED NEUTRAL	

NOTE:
1. CONDUIT TO BE 2" UNLESS NOTED IN PLAN.
2. ONLY SPLICE WIRES IN POLE, DO NOT SPLICE WIRES IN PULL BOX

PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	LIGHTING PLAN - SCHEMATIC	SHEET 46	E

2



PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 47	E

2

N CEDARBURG ROAD

STH 57 (GREEN BAY ROAD)

LEGEND

①	MARKING LINE EPOXY 4-INCH, (YELLOW)
②	MARKING LINE EPOXY 4-INCH, (WHITE)
③	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)
⑩	MARKING ISLAND NOSE EPOXY
⑪	MARKING DIAGONAL EPOXY 12-INCH
⑬	MARKING LINE GROOVED WET REF EPOXY 8-INCH (WHITE)
⑭	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
⑳	MARKING LINE EPOXY 4-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
㉑	MARKING LINE EPOXY 8-INCH (WHITE)
㉒	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH
㉓	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (DOT PATTERN WHITE) (6 FT LINE 3 FT SKIP)
㉔	MARKING EPOXY 18-INCH (DOT PATTERN WHITE) (2 FT LINE 2 FT SKIP)
㉕	MARKING CONTRAST EPOXY SPECIAL MARKING ARROW
㉖	MARKING CONTRAST EPOXY SPECIAL MARKING WORDS

PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	VFG SCRATCH - STH 57 EXTENED - (2)	SHEET 48	E

FILE NAME : L:\DESIGN PROJECTS\2565-07-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 024502_pm

PLOT DATE : 6/2/2021 2:50 PM PLOT BY : REBECCA JONARDI PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

STAGING TO BE CONCURRENT WITH 2270-04-70

-STAGE 1: ROAD OPEN TO ALL TRAFFIC, NO WORK
-STAGE 2: NB TEUTONIA AVE AND NB STH 57 CLOSED
-STAGE 3-5: ROAD CLOSED FOR CONSTRUCTION
-STAGE 6: ROUNDABOUT OPEN

N

DEAN ROAD

TEUTONIA AVE

STH 57

RUTH PLACE

STH 57

105

N GREEN BAY CT

POST POST

N CEDARBURG RD

STA 104+00 BEGIN PROJECT 2270-04-70
MAINTAIN EMERGENCY ACCESS FROM RUTH PLACE
SOUTH THRU THE PROJECT AT ALL TIMES

PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	STH 57 AND TEUTONIA AVE INTERSECTION CLOSURE OVERVIEW	SHEET 49	E

FILE NAME : L:\DESIGN PROJECTS\2565-07-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\025000_TCO.DWG
LAYOUT NAME - 025500

PLOT DATE : 3/31/2021 3:20 PM PLOT BY : REBECCA JONARDI PLOT NAME : PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 42

2

2

CORRESPONDING 2270-04-70 STAGE 2-5

CONSTRUCTION
- 2270-04-70 STH 57 BRIDGE DEMOLITION OVER STH 100 (STAGE 2)
- 2565-07-70 ROUNDABOUT CLOSURE BEGINS, NO WORK (STAGE 2)
- 2270-04-70 STH 57 RECONSTRUCTION (STAGE 3-5)
- 2565-07-70 STH 57 ROUNDABOUT CONSTRUCTION (STAGE 3-5)

TRAFFIC
- NB STH 57 CLOSED NORTH OF N GREEN BAY CT TO STH 100 (STAGE 2-5)
- SB STH 57 CLOSED SOUTH OF STH 100 TO N GREEN BAY CT (STAGE 3-5)
- TEUTONIA AVE NB CLOSED NORTH OF DEAN RD TO STH 57 (STAGE 2-5)
- TEUTONIA AVE SB CLOSED SOUTH OF STH 57 TO DEAN RD (STAGE 3-5)

N

W DEAN RD

320' MERGING TAPER

TEUTONIA AVE

ADD BARRICADES FOR STAGES 3-5 ONLY

SIGN TO BE PLACED ON TEUTONIA AVE AND N SHERMAN BLVD

ROAD CLOSED AHEAD W20-3A

LEFT LANE CLOSED 500 FT W20-5SD

ROAD CLOSED 1000 FT W20-3C

1140'

500'

W04-2L

ROAD CLOSED 500 FT W20-3D

TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH

LANE CLOSED R11-2L 48"X30"

DO NOT ENTER R5-1 30"X30"

ROAD CLOSED R11-2 48"X30"

PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	STH 57 AND TEUTONIA AVE INTERSECTION CLOSURE DETAIL	SHEET 50	E

FILE NAME : L:\DESIGN PROJECTS\2565-07-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\025001_TC1.DWG
LAYOUT NAME - 025501

PLOT DATE : 3/31/2021 3:44 PM PLOT BY : REBECCA JONARDI PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

CORRESPONDING 2270-04-70 STAGE 2-5

CONSTRUCTION
- 2270-04-70 STH 57 BRIDGE DEMOLITION OVER STH 100 (STAGE 2)
- 2565-07-70 ROUNDABOUT CLOSURE BEGINS, NO WORK (STAGE 2)
- 2270-04-70 STH 57 RECONSTRUCTION (STAGE 3-5)
- 2565-07-70 STH 57 ROUNDABOUT CONSTRUCTION (STAGE 3-5)

TRAFFIC
- NB STH 57 CLOSED NORTH OF N GREEN BAY CT TO STH 100 (STAGE 2-5)
- SB STH 57 CLOSED SOUTH OF STH 100 TO N GREEN BAY CT (STAGE 3-5)
- TEUTONIA AVE NB CLOSED NORTH OF DEAN RD TO STH 57 (STAGE 2-5)
- TEUTONIA AVE SB CLOSED SOUTH OF STH 57 TO DEAN RD (STAGE 3-5)

N

TEUTONIA AVE

ROAD CLOSED
R11-2
48"X30"

ROAD CLOSED
R11-2
48"X30"

BARRICADES FOR STAGE 3-5 ONLY

STH 57

N GREEN BAY CT

POST

TEMPORARY PAVEMENT MARKING

STH 57

RUTH PL

105

STA 104+00 BEGIN PROJECT 2270-04-70
(SEE STAGE 2 FOR STAGING DETAILS)

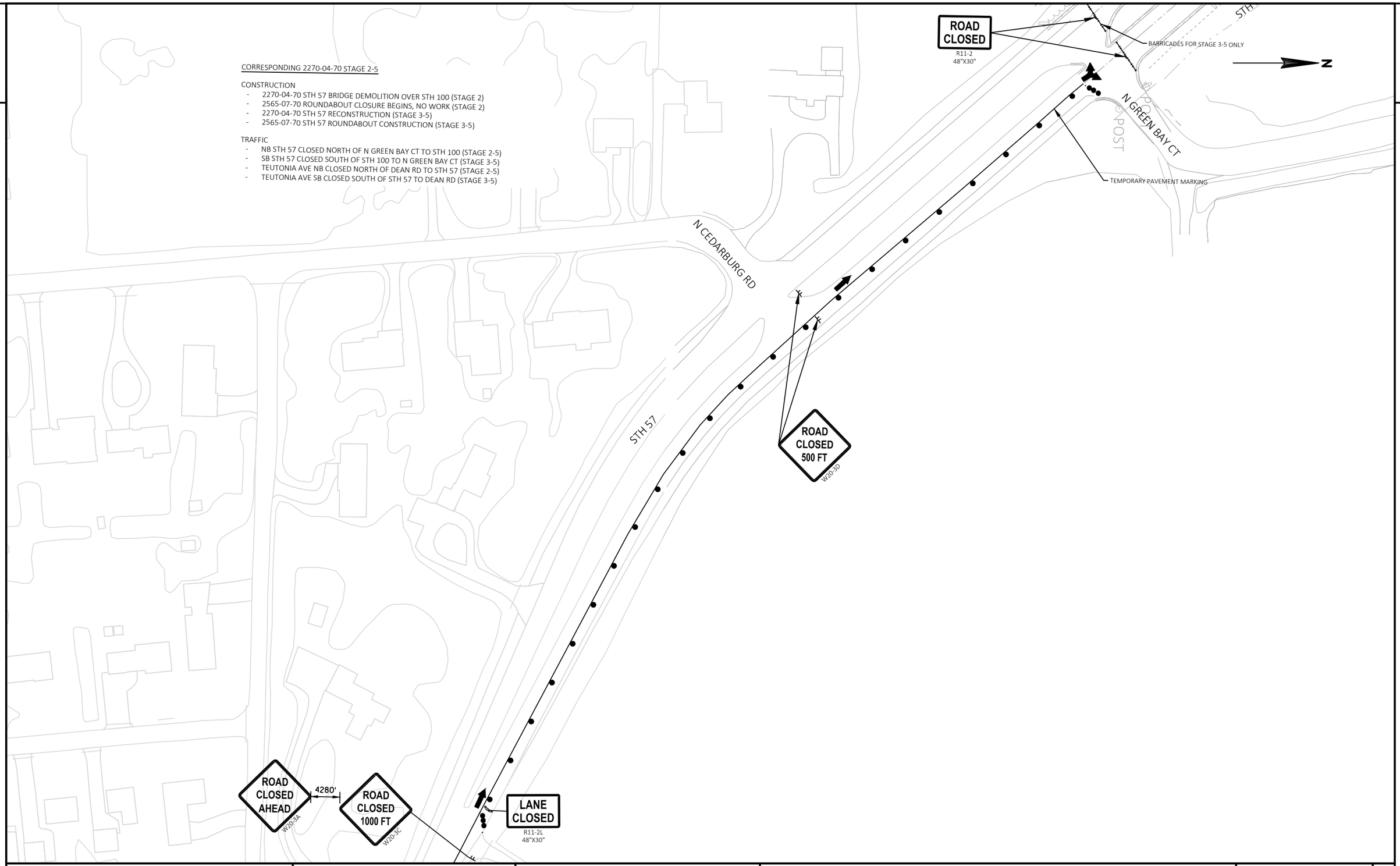
PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	STH 57 AND TEUTONIA AVE INTERSECTION CLOSURE DETAIL	SHEET 51	E

2

CORRESPONDING 2270-04-70 STAGE 2-5

CONSTRUCTION
- 2270-04-70 STH 57 BRIDGE DEMOLITION OVER STH 100 (STAGE 2)
- 2565-07-70 ROUNDABOUT CLOSURE BEGINS, NO WORK (STAGE 2)
- 2270-04-70 STH 57 RECONSTRUCTION (STAGE 3-5)
- 2565-07-70 STH 57 ROUNDABOUT CONSTRUCTION (STAGE 3-5)

TRAFFIC
- NB STH 57 CLOSED NORTH OF N GREEN BAY CT TO STH 100 (STAGE 2-5)
- SB STH 57 CLOSED SOUTH OF STH 100 TO N GREEN BAY CT (STAGE 3-5)
- TEUTONIA AVE NB CLOSED NORTH OF DEAN RD TO STH 57 (STAGE 2-5)
- TEUTONIA AVE SB CLOSED SOUTH OF STH 57 TO DEAN RD (STAGE 3-5)



PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	STH 57 AND TEUTONIA AVE INTERSECTION CLOSURE DETAIL	SHEET 52	E

2

2

CORRESPONDING WITH 2270-04-70 STAGE 3-5

CONSTRUCTION
- 2270-04-70 STH 57 RECONSTRUCTION
- 2565-07-70 STH 57 ROUNDABOUT CONSTRUCTION
- MAINTAIN EMERGENCY ACCESS FROM RUTH PLACE TO SB TEUTONIA AVE AND SB STH 57
- MAINTAIN ACCESS FOR THE OAK LEAF TRAIL USERS
- DO NOT REMOVE TRAIL SIGNS OR TRAIL CROSSING SIGNS WITHOUT INSTALLING NEW SIGNS

TRAFFIC
- STH 57 CLOSED NORTH OF N GREEN BAY CT TO STH 100
- TEUTONIA AVE CLOSED NORTH OF DEAN RD TO STH 100

N

TRUCKS ENTERING & LEAVING
W8-6A
36"x36"

OAK LEAF TRAIL

ROAD WORK AHEAD
W20-1A

TEUTONIA AVE

USE TEMPORARY PEDESTRIAN CURB RAMPS, TEMPORARY PEDESTRIAN SURFACE, TEMPORARY PEDESTRIAN SURFACE PLATE, SAFETY FENCE, AND TEMPORARY PEDESTRIAN BARRICADE AS NECESSARY DURING CONSTRUCTION TO MAINTAIN A HARD, TRAVERSABLE SURFACE AND DIRECT PEDESTRIANS

ROAD WORK AHEAD
W20-1A

TRUCKS ENTERING & LEAVING
W8-6A
36"x36"

ROAD CLOSED
R11-2
48"X30"

STH 57

N GREEN BAY CT

POST

TEMPORARY PAVEMENT MARKING

RUTH PLACE

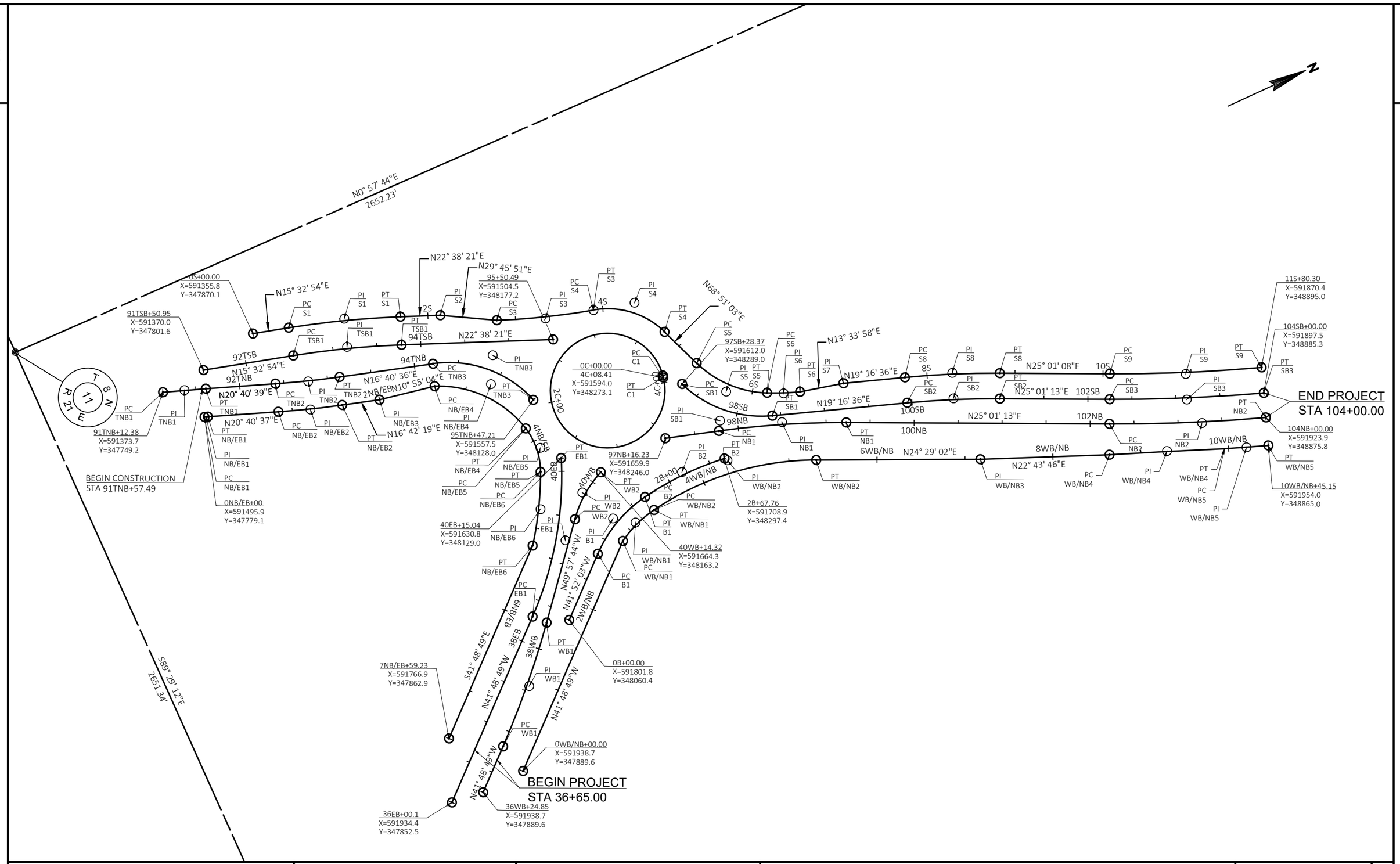
STH 57

105

STA 104+00 BEGIN PROJECT 2270-04-70
(SEE STAGE 3-5 FOR STAGING DETAILS)

PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	STH 57 AND TEUTONIA AVE INTERSECTION CLOSURE DETAIL STAGE 3-5	SHEET 53	E

2

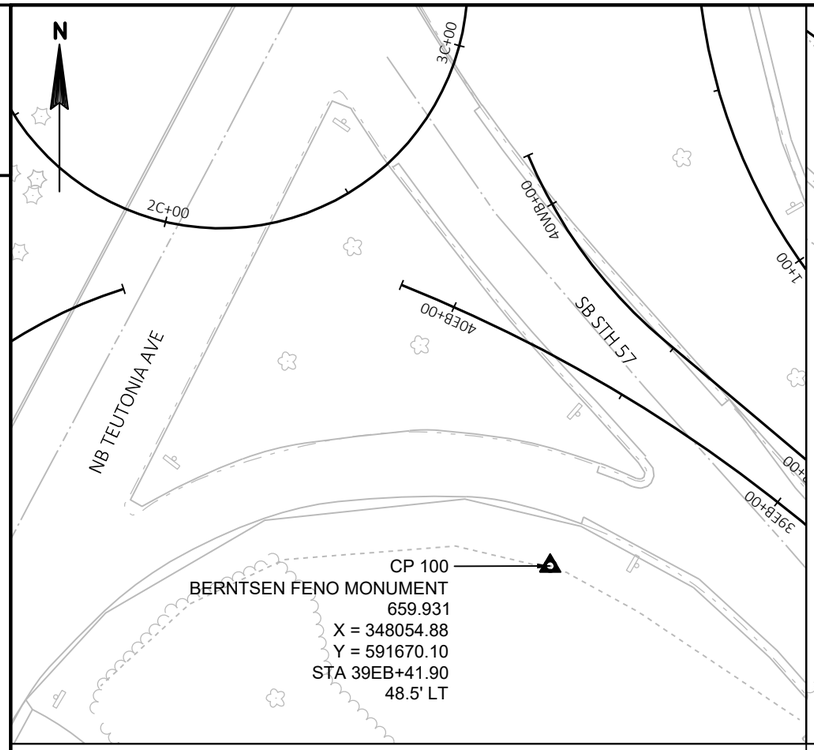


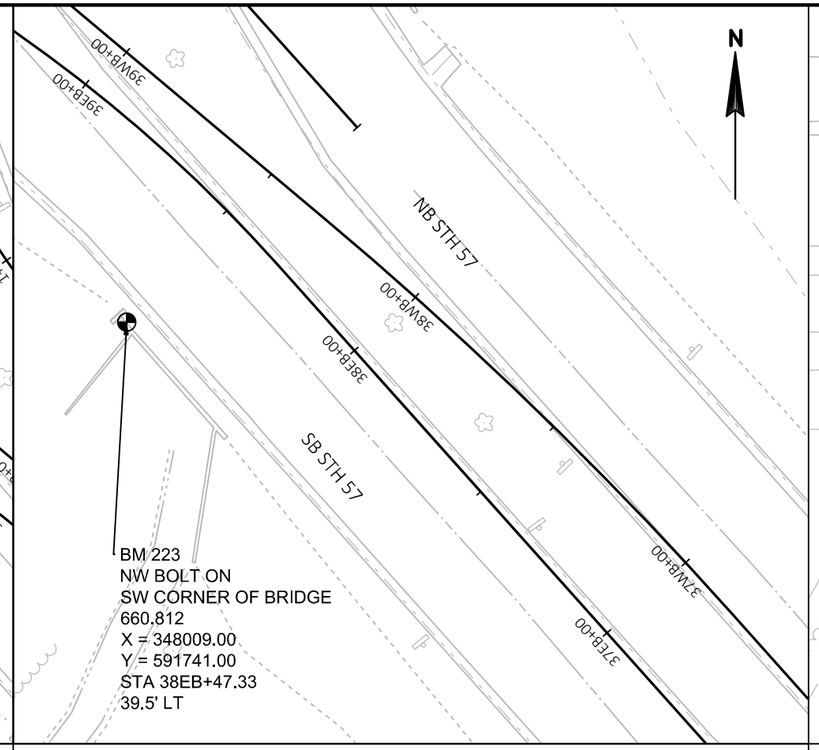
PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	ALIGNMENT PLAN	SHEET 54	E

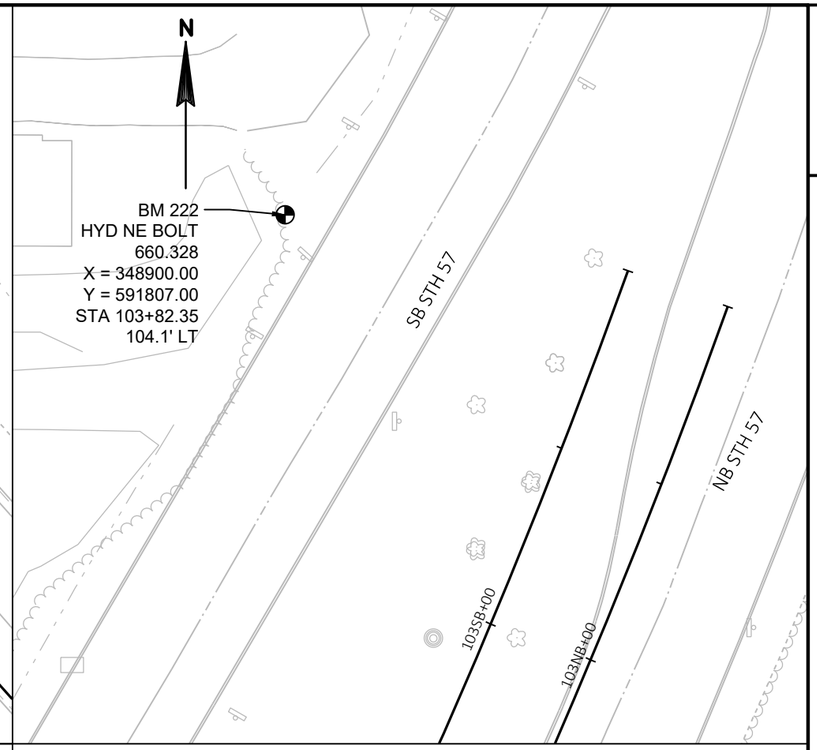
NUMBER	ROADWAY NAME	PI STATION	PI COORDINATES		Δ	D	T	L	E	R	PC STATION	PC COORDINATES		PT STATION	PT COORDINATES	
			X									X	Y		X	Y
WB1	STH 57 WB		591851.0	347988	8° 8' 55.13"	5° 27' 24.27"	74.792'	149.332'	2.660'	1050.000'		591901	347932.0	38+30.99	591794	348036
WB2	STH 57 WB	39+84.16	591676.5	348134	27° 5' 48.94"	44° 4' 25.24"	31.327'	61.481'	3.721'	130.000'	39+52.83	591701	348114	40+14.32	591664	348163
EB1	STH 57 EB	39+24.38	591718.2	348.094.2	26° 27' 10.1"	14° 19' 26.2"	94.014'	184.675'	10.900'	400.000'	38+30.37	591781	348024	40+15.04	591631	348129.0
NB1	STH 57 NB	98+50.42	591698.9	348374	8° 7' 52.23"	5° 35' 43.05"	72.783'	145.322'	2.583'	1024.000'	97+77.64	591678	348305	99+22.96	591730	348440
NB2	STH 57 NB	103+11.12	591893.8	348792	5° 17' 51.58"	2° 58' 41.41"	89.005'	177.883'	2.058'	1923.859'	102+22.12	591856	348711	104+00.00	591924	348876
SB1	STH 57 SB	97+88.22	591667.7	348311	49° 26' 13.56"	44° 4' 25.24"	59.844'	112.169'	13.113'	130.000'	97+28.37	591612.0	348289.0	98+40.54	591687	348367
SB2	STH 57 SB	100+47.26	591755.7	348562	5° 44' 36.13"	5° 27' 24.27"	52.670'	105.253'	1.320'	1050.000'	99+94.59	591738	348513	100+99.84	591778.0	348610
SB3	STH 57 SB	103+12.42	591867.9	348803	5° 17' 51.58"	3° 1' 19.75"	87.710'	175.294'	2.028'	1895.859'	102+24.71	591831	348723	104+00.00	591898	348885
TNB1	TEUTONIA NB	91+36.83	591381.7	347772	1° 28' 40.75'"	3° 1' 19.75'"	24.454'	48.905'	0.158'	1895.859'	91+12.38	591374	347749	91+61.28	591390	347795
TNB2	TEUTONIA NB	92+77.35	591431.3	347904	4° 0' 3.12'"	5° 27' 24.27'"	36.675'	73.320'	0.640'	1050.000'	92+40.67	591418	347869	93+13.99	591442	347939
TNB3	TEUTONIA NB	94+89.61	591492.2	348107	55° 34' 59.76'"	44° 4' 25.24'"	68.517'	126.114'	16.951'	130.000'	94+21.10	591473	348041	95+47.21	591558	348128.0
TSB1	TEUTONIA SB	93+16.25	591414.3	347961	7° 5' 27.05'"	5° 43' 46.48'"	61.958'	123.759'	1.918'	1000.000'	92+54.29	591398	347901	93+78.05	591438	348018.0
C1	CENTER	--	--	--	360°	88° 8' 50.47'"	1.175'	408.407'	0.011'	65.000'	00+00.00	591594.0	348273.1	04+08.41	591594.0	348273
B1	BYPASS	01+25.74	591717.9	348154	32° 32' 44.67'"	38° 11' 49.87'"	43.786'	85.205'	6.260'	150.000'	00+81.95	591747	348121	01+67.15	591711	348197
B2	BYPASS	02+17.81	591702.6	348247	16° 28' 12.22"	16° 22' 12.8'"	50.654'	100.610'	3.647'	350.000'	01+67.15	591711	348197	02+67.76	591709	348297
NB/EB1	NB/EB CURB LINE	0+01.86	591419.6	347782	0° 06' 53"	1° 32' 13"	1.86'	3.73'	0.05'	1863.86'	0+00	591496	347779	0+03.73	591421	347784
NB/EB2	NB/EB CURB LINE	1+20.66	591461.6	347893	3° 58' 18"	2° 43' 08"	36.53'	73.04'	0.63'	1053.67'	0+84.13	591449	347859	1+57.17	591472	347928
NB/EB3	NB/EB CURB LINE	2+00	591484	347969	--	--	--	--	--	--	--	--	--	--	--	--
NB/EB4	NB/EB CURB LINE	3+28.49	591521	348091	53° 57' 17"	22° 44' 50"	64.11	118.6	15.37'	125.94	2+64.38	591496	348032	3+82.98	591583	348106
NB/EB5	NB/EB CURB LINE	4+10.39	591610	348112	36°24' 32"	34° 22' 15"	27.41	52.97	4.39	83.35	3+82.98	591583	348106	4+35.94	591635	348101
NB/EB6	NB/EB CURB LINE	4+78.28	591673	348083	36°24' 32"	34° 22' 15"	42.34'	84.36'	2.22'	400'	4+35.94	591635	348101	5+20.30	591707	348057
S1	SB CURB LINE	1+05.15	591384	347971	7° 05' 27"	2° 46' 33"	63.94'	127.72'	1.98'	1032'	0+41.20	591366	347909	1+68.92	591408	348030
S2	SB CURB LINE	2+14.55	591426	348072	--	--	--	--	--	--	--	--	--	--	--	--
S3	SB CURB LINE	3+33.96	591479	348179	7° 54' 46"	3° 34' 52"	55.33'	110.48'	1.91'	800'	2+78.63	591458	348128	3+89.12	591493	348232
S4	SB CURB LINE	4+36.63	591505	348278	54° 07' 28"	30° 48' 15"	47.51'	87.85'	12.17'	93'	3+89.12	591493	348232	4+76.97	591549	348295

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NUMBER	ROADWAY NAME	PI STATION	PI COORDINATES		Δ	D	T	L	E	R	PC STATION	PC COORDINATES		PT STATION	PT COORDINATES	
			X	Y								X	Y		X	Y
S5	SB CURB LINE	5+74.46	591640	348330	42° 24' 46"	23° 52' 24"	46.56'	88.83'	8.72'	120'	5+27.90	591597	348314	6+16.72	591661	348372
S6	SB CURB LINE	6+35.50	591669	348389	7° 09' 41"	9° 32' 57"	18.77'	37.50'	0.63'	300'	6+16.72	591661	348372	6+54.22	591676	348407
S7	SB CURB LINE	7+04.47	591687	348455	--	--	--	--	--	--	--	--	--	--	--	--
S8	SB CURB LINE	8+28.75	591728	348573	5° 44' 31"	2° 39' 29"	54.05'	108.01'	1.35'	1077.74'	7+74.70	591710	348522	8+82.71	591751	348622
S9	SB CURB LINE	10+94.06	591841	348813	5° 17' 52"	1° 32' 04"	86.37'	172.61'	2.00'	1866.86'	10+07.77	591804	348735	11+80.30	591870	348895
WB/NB1	WB/NB CURB LINE	3+10.35	594732	348175	21° 44' 09"	21° 42' 11"	25.34'	50.08'	2.41'	132'	2+85.00	591745	348153	3+35.08	591728	348200
WB/NB2	WB/NB CURB LINE	4+35.97	591712	348299	33 48' 20"	8° 37' 20"	100.89'	195.89'	15.07'	332'	3+35.08	591728	348200	5+30.96	591753	348391
WB/NB3	WB/NB CURB LINE	7+17.57	591831	348561	--	--	--	--	--	--	--	--	--	--	--	--
WB/NB4	WB/NB CURB LINE	9+29.82	591911	348757	1° 24' 36"	0° 32' 19"	65.44'	130.87'	0.40'	5317.84'	8+64.39	591888	348696	9+95.36	591936	348818
WB/NB5	WB/NB CURB LINE	10+20.20	591945	348841	5° 17' 52"	1° 32' 04"	24.95'	49.89'	0.16'	1956.29'	9+95.36	591936	348818	10+45.15	591954	348865







PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	CONTROL POINT DETAIL/BENCHMARKS	SHEET 57	E

FILE NAME : L:\DESIGN PROJECTS\2565-07-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\027202_AD.DWG
LAYOUT NAME - 027220
PLOT DATE : 4/13/2021 10:39 AM
PLOT BY : TONY BUBLITZ
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2565-07-70

Line	Item	Item Description	Unit	Total	Qty
0004	201.0105	Clearing	STA	11.000	11.000
0008	201.0205	Grubbing	STA	11.000	11.000
0016	204.0100	Removing Concrete Pavement	SY	15,124.000	15,124.000
0020	204.0110	Removing Asphaltic Surface	SY	170.000	170.000
0028	204.0155	Removing Concrete Sidewalk	SY	159.000	159.000
0038	204.0210	Removing Manholes	EACH	4.000	4.000
0040	204.0220	Removing Inlets	EACH	11.000	11.000
0042	204.0245	Removing Storm Sewer (size) 01. 12-INCH	LF	837.000	837.000
0050	204.0245	Removing Storm Sewer (size) 04. 24-INCH	LF	716.000	716.000
0062	204.0250	Abandoning Manholes	EACH	1.000	1.000
0064	204.0280	Sealing Pipes	EACH	5.000	5.000
0090	205.0100	Excavation Common	CY	9,806.000	9,806.000
0094	208.0100	Borrow	CY	3,996.000	3,996.000
0096	209.1500	Backfill Granular Grade 1	TON	1,428.000	1,428.000
0102	213.0100	Finishing Roadway (project) 02. 2565-07-70	EACH	1.000	1.000
0104	214.0100	Obliterating Old Road	STA	16.000	16.000
0106	305.0110	Base Aggregate Dense 3/4-Inch	TON	613.000	613.000
0108	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	5,270.000	5,270.000
0112	312.0110	Select Crushed Material	TON	12,640.000	12,640.000
0120	405.0100	Coloring Concrete WisDOT Red	CY	156.000	156.000
0130	415.0085	Concrete Pavement 8 1/2-Inch	SY	12,100.000	12,100.000
0136	415.5110.S	Concrete Pavement Joint Layout 02. 2565-07-70	LS	1.000	1.000
0140	416.0512	Concrete Truck Apron 12-Inch	SY	470.000	470.000
0198	520.8000	Concrete Collars for Pipe	EACH	2.000	2.000
0204	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	2.000	2.000
0216	531.2042	Drilling Shaft 42-Inch 0001. S-40-669	LF	18.000	18.000
0218	531.2042	Drilling Shaft 42-Inch 0002. S-40-3090	LF	18.000	18.000
0220	531.2042	Drilling Shaft 42-Inch 0003. S-40-3091	LF	18.000	18.000
0226	531.5130	Foundation Single-Shaft Type MC-III (structure) 0001. S-40-669	EACH	1.000	1.000
0228	531.5130	Foundation Single-Shaft Type MC-III (structure) 0002. S-40-3090	EACH	1.000	1.000
0230	531.5140	Foundation Single-Shaft Type MC-IV (structure) 0003. S-40-3091	EACH	1.000	1.000
0236	532.5130	Monotube Cantilever Type III (structure) 0001. S-40-669	EACH	1.000	1.000
0238	532.5130	Monotube Cantilever Type III (structure) 0002. S-40-3090	EACH	1.000	1.000
0240	532.5140	Monotube Cantilever Type IV (structure) 0003. S-40-3091	EACH	1.000	1.000
0242	601.0405	Concrete Curb & Gutter 18-Inch Type A	LF	308.000	308.000
0246	601.0409	Concrete Curb & Gutter 30-Inch Type A	LF	6,229.000	6,229.000
0254	601.0580	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type R	LF	393.000	393.000
0256	601.0600	Concrete Curb Pedestrian	LF	293.000	293.000
0258	602.0410	Concrete Sidewalk 5-Inch	SF	22,330.000	22,330.000
0260	602.0505	Curb Ramp Detectable Warning Field Yellow	SF	280.000	280.000
0268	606.0200	Riprap Medium	CY	8.000	8.000
0270	608.0312	Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	LF	667.000	667.000
0276	608.0324	Storm Sewer Pipe Reinforced Concrete Class III 24-Inch	LF	897.000	897.000
0282	608.0348	Storm Sewer Pipe Reinforced Concrete Class III 48-Inch	LF	8.000	8.000
0286	608.0412	Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	LF	263.000	263.000
0302	611.0530	Manhole Covers Type J	EACH	9.000	9.000
0306	611.0606	Inlet Covers Type B	EACH	1.000	1.000

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Line	Item	Item Description	Unit	Total	Qty
0310	611.0624	Inlet Covers Type H	EACH	21.000	21.000
0318	611.0652	Inlet Covers Type T	EACH	2.000	2.000
0326	611.1230	Catch Basins 2x3-FT	EACH	16.000	16.000
0328	611.2004	Manholes 4-FT Diameter	EACH	8.000	8.000
0330	611.2005	Manholes 5-FT Diameter	EACH	4.000	4.000
0342	611.3220	Inlets 2x2-FT	EACH	1.000	1.000
0348	611.8110	Adjusting Manhole Covers	EACH	2.000	2.000
0364	616.0700.S	Fence Safety	LF	310.000	310.000
0366	619.1000	Mobilization	EACH	0.110	0.110
0368	620.0300	Concrete Median Sloped Nose	SF	65.000	65.000
0370	624.0100	Water	MGAL	629.000	629.000
0372	625.0100	Topsoil	SY	1,122.000	1,122.000
0374	625.0500	Salvaged Topsoil	SY	7,497.000	7,497.000
0380	628.1504	Silt Fence	LF	936.000	936.000
0382	628.1520	Silt Fence Maintenance	LF	1,444.000	1,444.000
0386	628.1905	Mobilizations Erosion Control	EACH	1.000	1.000
0388	628.1910	Mobilizations Emergency Erosion Control	EACH	5.000	5.000
0390	628.2006	Erosion Mat Urban Class I Type A	SY	4,858.000	4,858.000
0396	628.7005	Inlet Protection Type A	EACH	29.000	29.000
0400	628.7015	Inlet Protection Type C	EACH	44.000	44.000
0404	628.7504	Temporary Ditch Checks	LF	50.000	50.000
0406	628.7555	Culvert Pipe Checks	EACH	14.000	14.000
0408	628.7560	Tracking Pads	EACH	2.000	2.000
0410	628.7570	Rock Bags	EACH	30.000	30.000
0412	629.0205	Fertilizer Type A	CWT	6.000	6.000
0414	630.0140	Seeding Mixture No. 40	LB	237.000	237.000
0416	630.0200	Seeding Temporary	LB	7.000	7.000
0418	630.0500	Seed Water	MGAL	21.000	21.000
0420	631.0300	Sod Water	MGAL	73.000	73.000
0422	631.1000	Sod Lawn	SY	3,163.000	3,163.000
0452	633.5200	Markers Culvert End	EACH	2.000	2.000
0454	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	51.000	51.000
0456	634.0622	Posts Wood 4x6-Inch X 22-FT	EACH	3.000	3.000
0458	634.0814	Posts Tubular Steel 2x2-Inch X 14-FT	EACH	40.000	40.000
0460	637.2210	Signs Type II Reflective H	SF	767.700	767.700
0464	637.2230	Signs Type II Reflective F	SF	328.000	328.000
0466	638.2102	Moving Signs Type II	EACH	2.000	2.000
0468	638.2602	Removing Signs Type II	EACH	50.000	50.000
0470	638.3000	Removing Small Sign Supports	EACH	50.000	50.000
0472	643.0300	Traffic Control Drums	DAY	15,194.000	15,194.000
0476	643.0420	Traffic Control Barricades Type III	DAY	6,630.000	6,630.000
0482	643.0705	Traffic Control Warning Lights Type A	DAY	13,260.000	13,260.000
0484	643.0715	Traffic Control Warning Lights Type C	DAY	3,527.000	3,527.000
0486	643.0800	Traffic Control Arrow Boards	DAY	271.000	271.000
0488	643.0900	Traffic Control Signs	DAY	6,901.000	6,901.000
0500	643.5000	Traffic Control	EACH	0.110	0.110
0502	644.1410	Temporary Pedestrian Surface Asphalt	SF	1,600.000	1,600.000
0504	644.1430	Temporary Pedestrian Surface Plate	SF	960.000	960.000
0506	644.1601	Temporary Pedestrian Curb Ramp	DAY	536.000	536.000
0508	644.1810	Temporary Pedestrian Barricade	LF	300.000	300.000
0512	645.0120	Geotextile Type HR	SY	16.000	16.000
0516	646.1020	Marking Line Epoxy 4-Inch	LF	5,261.000	5,261.000
0520	646.1545	Marking Line Grooved Wet Ref Contrast Epoxy 4-Inch	LF	450.000	450.000
0522	646.3020	Marking Line Epoxy 8-Inch	LF	481.000	481.000
0524	646.3545	Marking Line Grooved Wet Ref Contrast Epoxy 8-Inch	LF	1,328.000	1,328.000
0542	646.6320	Marking Dotted Extension Epoxy 18-Inch	LF	67.000	67.000

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Line	Item	Item Description	Unit	Total	Qty
0544	646.7120	Marking Diagonal Epoxy 12-Inch	LF	354.000	354.000
0548	646.7520	Marking Crosswalk Epoxy Block Style 24-Inch	LF	167.000	167.000
0552	646.8220	Marking Island Nose Epoxy	EACH	8.000	8.000
0564	649.0150	Temporary Marking Line Removable Tape 4-Inch	LF	1,949.000	1,949.000
0576	649.0960	Temporary Marking Removable Mask Out Tape 6-Inch	LF	80.000	80.000
0578	650.4000	Construction Staking Storm Sewer	EACH	31.000	31.000
0580	650.4500	Construction Staking Subgrade	LF	1,800.000	1,800.000
0582	650.7000	Construction Staking Concrete Pavement	LF	1,800.000	1,800.000
0588	650.8500	Construction Staking Electrical Installations (project) 02. 2565-07-70	LS	1.000	1.000
0590	650.9000	Construction Staking Curb Ramps	EACH	14.000	14.000
0594	650.9910	Construction Staking Supplemental Control (project) 02. 2565-07-70	LS	1.000	1.000
0596	650.9920	Construction Staking Slope Stakes	LF	3,043.000	3,043.000
0598	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	2,078.000	2,078.000
0600	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	383.000	383.000
0610	653.0135	Pull Boxes Steel 24x36-Inch	EACH	1.000	1.000
0612	653.0140	Pull Boxes Steel 24x42-Inch	EACH	6.000	6.000
0620	654.0105	Concrete Bases Type 5	EACH	20.000	20.000
0628	654.0230	Concrete Control Cabinet Bases Type L30	EACH	1.000	1.000
0644	655.0610	Electrical Wire Lighting 12 AWG	LF	2,400.000	2,400.000
0646	655.0615	Electrical Wire Lighting 10 AWG	LF	11,347.000	11,347.000
0664	656.0400	Electrical Service Main Lugs Only Meter Pedestal (location) 01. HL-40-GBT	LS	1.000	1.000
0696	659.2230	Lighting Control Cabinets 240/480 30-Inch	EACH	1.000	1.000
0734	690.0150	Sawing Asphalt	LF	20.000	20.000
0736	690.0250	Sawing Concrete	LF	145.000	145.000
0738	715.0415	Incentive Strength Concrete Pavement	DOL	3,630.000	3,630.000
0742	715.0710	Optimized Aggregate Gradation Incentive	DOL	11,707.000	11,707.000
0774	SPV.0060	Special 13. Adjusting Village of Brown Deer Sanitary Manhole Covers	EACH	1.000	1.000
0776	SPV.0060	Special 14. Adjusting Village of Brown Deer Water Boxes	EACH	1.000	1.000
0782	SPV.0060	Special 17. Marking Contrast Epoxy Special Marking Arrow	EACH	23.000	23.000
0784	SPV.0060	Special 18. Marking Contrast Epoxy Special Marking Words	EACH	7.000	7.000
0822	SPV.0060	Special 63. Transformer Bases Breakaway 11 1/2-Inch Bolt Circle Black	EACH	20.000	20.000
0826	SPV.0060	Special 65. Poles Type 5-Aluminum Black	EACH	20.000	20.000
0870	SPV.0060	Special 87. Luminaires Utility LED C Black	EACH	20.000	20.000
0872	SPV.0060	Special 88. Luminaire Arms Single Member 4 1/2-Inch Clamp 8-FT Black	EACH	20.000	20.000
0880	SPV.0090	Special 01. Heavy Duty Silt Fence	LF	508.000	508.000
0952	SPV.0165	Special 01. Construction Staking Sidewalk	SF	22,330.000	22,330.000

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

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CLEARING AND GRUBBING

ROADWAY	STATION	TO	STATION	OFFSET	201.0105 CLEARING STA	201.0205 GRUBBING STA
STH 57	38WB+75		40WB+75	--	2	2
	97NB+60		104NB+00	--	7	7
TEUTONIA AVE	94NB+50		96NB+50	--	2	2
			PROJECT TOTALS		11	11

REMOVING SIDEWALK

ROADWAY	STATION	TO	STATION	OFFSET	204.0155 REMOVING CONCRETE SIDEWALK SY
STH 57	93SB+99		94SB+43	44' LT	51
	94SB+05		94SB+15	8'LT	62
	94NB+05		94NB+15	77' RT	46
			PROJECT TOTALS		159

REMOVING PAVEMENT

ROADWAY	STATION	TO	STATION	OFFSET	204.0100 REMOVING CONCRETE PAVEMENT SY	204.0110 REMOVING ASPHALTIC SURFACE SY
STH 57	92SB+13		104SB+00	LT	5684	--
	91NB+57		104NB+00	RT	5337	--
	94+32		94+45	82' LT	--	67
	94+40		94+60	0'	--	58
	94+48		94+58	49' RT	--	46
	36EB+65		40EB+14	LT	1841	--
	36WB+65		40WB+14	RT	2262	--
			PROJECT TOTALS		15124	170

REMOVING STORM SEWER

ROADWAY	STATION	TO	STATION	204.0210 REMOVING MANHOLES EACH	204.0220 REMOVING INLETS EACH	204.0245 REMOVING STORM SEWER (12") LF	204.0245 REMOVING STORM SEWER (24") LF	204.0280 SEALING PIPES EACH
STH 57	38WB+80		--	--	1	--	--	1
	39WB+05		--	--	1	--	--	1
	39WB+72		39WB+72	--	1	39	--	1
	39WB+72		40WB+65	--	1	90	--	1
	39WB+00		99NB+00	--	--	--	368	1
	97NB+87		98NB+00	--	1	33	--	--
	98NB+00		99NB+20	--	1	113	--	--
	98NB+64		99NB+20	--	1	80	--	--
	99NB+00		102NB+44	1	--	--	348	--
	99SB+00		100SB+00	--	1	95	--	--
	99SB+00		99SB+20	1	--	85	--	--
	102NB+44		102NB+44	1	2	120	--	--
TEUTONIA AVE	93TSB+70		95TSB+50	1	1	182	--	--
			PROJECT TOTALS	4	11	837	716	5

REMOVING ROADWAY

LOCATION	214.0100 OBLITERATING OLD ROADWAY STA
STH 57 NB	8
STH 57 WB	4
TEUTONIA AVE	4
PROJECT TOTALS	16

GRANULAR BACKFILL

STAGE	LOCATION	209.1500 BACKFILL GRANULAR GRADE 1 TON
	PROJECT ID 2565-07-70	1,428
	PROJECT TOTALS	1,428

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

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Division	From/To Station	Location	205.0100 Common Excavation (1) Cut (2)	Salvaged/ Unusable Pavement Material (3)	Available Material (4)	Unexpanded Fill	Expanded Fill (5) Factor 1.30	Mass Ordinate +/- (6)	Waste	Borrow 208.0100)
CENTER	00+00 to 02+00	Roundabout	812	827	-15	534	694	-709	0	709
EAST LEG	36+66 to 40+00	STH 57	1983	3077	-1094	412	536	-1630	0	1630
NORTH LEG	96+16 to 103+99	STH 57	5330	3848	1482	703	914	568	568	0
SOUTH LEG	91+57 to 95+00	TEUTONIA	1681	1653	28	1296	1685	-1657	0	1657
Grand Total			9806	9405	401	2946	3830	-3428	568	3996
		Total Common Exc	9806							

1) Common Excavation is the sum of the Cut. Item number 205.0100
2) Some Salvaged/Unsuable Pavement Material is included in Cut.
3)Existing Unusable Pavement Material may be left in place when it is below the Cut necessary to place Select Crushed Material.
4) Available Material = Cut - Salvaged/Unusuable Pavement Material
5) Expanded Fill. Factor = 1.3
6) The Mass Ordinate + or - Qty calculated for the Division. Plus quantity indicates an excess of material within the Division. Minus indicates a shortage of material within the Division.

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

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BASE AGGREGATE

ROADWAY	STATION	TO	STATION	OFFSET	305.0110 BASE AGGREAGATE DENSE 3/4-INCH TON	305.0120 BASE AGGREAGATE DENSE 1 1/4-INCH TON	312.0110 SELECT CRUSHED MATERIAL TON	624.0100* WATER MGAL
STH 57	38WB+37		97NB+83	60' RT	120	--	--	2
	38WB+98		98NB+86	75' RT	50	--	--	1
	39EB+76		39EB+90	15' RT	10	--	--	1
	93SB+61		104SB+00	75' LT	280	--	--	5
	91NB+57		104NB+00	--	--	5270	12640	80
	97NB+45		97NB+63	0' LT	13	--	--	1
TEUTONIA	92NB+97		38EB+60	55' RT	130	--	--	2
	95SB+13		95SB+23	10'RT	10	--	--	1
			PROJECT TOTALS		613	5270	12640	93

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

CONCRETE PAVEMENT

ROADWAY	STATION	TO	STATION	OFFSET	405.0100 COLORING CONCRETE WISDOT RED CY	415.0085 CONCRETE PAVEMENT 8 1/2-INCH SY	415.5110.S CONCRETE PAVEMENT JOINT LAYOUT LS	416.0512 CONCRETE TRUCK APRON 12-INCH SY
STH 57	36WB+65		40WB+15	RT	--	1400	--	--
	36EB+65		40EB+15	LT	--	1200	--	--
	92SB+13		95SB+50	LT	--	1200	--	--
	97NB+16		104NB+00	RT	--	3300	1	--
	97SB+28		104SB+00	LT	--	2100	--	--
TEUTONIA	91NB+57		95NB+47	RT	--	1300	--	--
CENTER	0C+00		4C+08	15' LT	156	1600	--	470
			PROJECT TOTALS		156	12100	1	470

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

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CONCRETE CURB & GUTTER

ROADWAY	STATION	TO	STATION	OFFSET	601.0409 CONCRETE CURB & GUTTER 30-INCH TYPE A LF	601.0405 CONCRETE CURB AND GUTTER 18-INCH TYPE A (REVERSE SLOPE)	601.0580 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE R	601.0600 CONCRETE CURB PEDESTRIAN LF	620.0300 CONCRETE MEDIAN SLOPED NOSE SF
STH 57	36EB+65		39EB+88	32' LT	475	--	--	--	--
	36EB+65		40EB+08	0'	718	--	--	--	26
	36WB+65		40WB+14	40' RT	335	--	--	--	--
	38WB+39		97NB+83	25' RT	566	--	--	--	--
	39EB+79		39EB+89	0'	--	--	--	50	--
	39WB+75		39WB+75	30' RT	--	--	--	42	--
	39WB+75		97NB+40	35' RT	--	--	--	201	--
	92SB+13		104SB+00	34' LT	1180	--	--	--	--
	97NB+07		104NB+00	50' RT	529	--	--	--	--
	97NB+28		104NB+00	0'	1281	--	--	--	20
TEUTONIA	91NB+57		95NB+77	34' RT	383	--	--	--	--
	91NB+57		95NB+80	0'	762	--	--	--	19
CENTER	0C+00		4C+08	2.5' LT	--	--	393	--	--
	0C+00		4C+08	16' LT	--	308	--	--	--
			PROJECT TOTALS		6229	308	393	293	65

CONCRETE SIDEWALK

ROADWAY	STATION	TO	STATION	OFFSET	602.0410 CONCRETE SIDEWALK 5-INCH SF	602.0505 CURB RAMP DETECTABLE WARNING FIELD YELLOW SF
STH 57	92SB+50		104SB+00	RT	10140	60
STH 57	38WB+37		98NB+86	LT/RT	7050	160
TEUTONIA	91NB+90		104NB+00	LT/RT	5140	60
			PROJECT TOTALS		22330	280

SAWING

ROADWAY	STATION	OFFSET	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF
TEUTONIA AVE	91NB+90	RT	--	36
TEUTONIA AVE	92SB+50	LT	--	36
STH 57	36EB+65	LT	--	36
STH 57	36WB+65	RT	--	37
OAK LEAF TRAIL	94NB+10	--	20	--
		PROJECT TOTALS	20	145

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

STORM SEWER STRUCTURES									STORM SEWER PIPES							
ROADWAY	STRUCTURE NO.	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH[1] (FT)	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE[A] %	PIPE LENGTH[B] (FT)	PIPE CALSS	PIPE SIZE (INCH)
STH 57	1	102NB+44	19.4	LT	658.79	MANHOLE 4-FT DIAMETER	J	7.26	1	2	653.53	653.33	0.30	65.8	III	24
STH 57	1A	102NB+45	10.4	LT	658.24	CATCH BASIN 2x3-FT	H	6.61	1A	1	653.63	653.60	0.33	9.1	IV	12
STH 57	1B	102NB+43	57	LT	657.71	CATCH BASIN 2x3-FT	H	5.99	1B	1	653.72	653.60	0.32	37.6	IV	12
STH 57	2	101NB+78	15.8	LT	659.4	MANHOLE 4-FT DIAMETER	J	8.07	2	3	653.33	652.91	0.30	139.3	III	24
STH 57	2A	101NB+77	26.9	LT	658.74	CATCH BASIN 2x3-FT	H	7.25	2A	2	653.49	653.45	0.36	11.2	III	12
STH 57	3	100NB+38	12	LT	660.36	MANHOLE 4-FT DIAMETER	J	9.45	3	4	652.91	652.51	0.30	134.9	III	24
STH 57	3A	100NB+38	41.5	RT	659.22	CATCH BASIN 2x3-FT	H	8.02	3A	3	653.20	653.01	0.36	53.5	III	12
STH 57	4	99NB+04	13.8	LT	660.14	MANHOLE 4-FT DIAMETER	H	9.63	4	5	652.51	652.38	0.30	43.2	III	24
STH 57	4A	98NB+99	75.2	LT	658.65	INLETS 2x2-FT	B	5.35	4A	4B	653.30	652.80	1.45	34.6	III	12
STH 57	4B	98NB+99	40.5	LT	660.11	CATCH BASIN 2x3-FT	H	9.31	4B	4	652.80	652.60	0.74	26.9	III	12
STH 57	5	98NB+63	1.8	LT	660.47	MANHOLE 5-FT DIAMETER	H	10.09	5	6	652.38	652.11	0.29	93.0	III	24
STH 57	5A	98NB+62	42.2	RT	660.19	CATCH BASIN 2x3-FT	H	9.59	5A	5	652.60	652.40	0.45	44.0	III	12
STH 57	6	97NB+73	24.6	RT	661.14	MANHOLE 4-FT DIAMETER	H	11.03	6	7	652.11	651.62	0.30	162.1	III	24
STH 57	6A	97NB+63	79.7	LT	662.22	CATCH BASIN 2x3-FT	H	8.06	6A	6E	656.16	655.91	0.31	81.1	III	12
STH 57	6B	3C+33	1.5	LT	661.69	CATCH BASIN 2x3-FT	T	8.49	6B	6C	655.20	655.30	0.86	11.7	III	12
STH 57	6C	3C+45	1.5	LT	661.68	CATCH BASIN 2x3-FT	T	8.66	6C	6E	655.02	654.91	0.45	24.6	III	12
STH 57	6E	97NB+24	8.5	LT	661.9	MANHOLE 4-FT DIAMETER	H	8.99	6E	6	654.91	654.61	0.51	58.6	III	12
STH 57	7	39NB+13	90.5	RT	658.06	MANHOLE 5-FT DIAMETER	J	8.44	7	8	651.62	651.50	0.30	40.5	III	24
STH 57	7A	38WB+83	16	RT	660.48	CATCH BASIN 2x3-FT	H	8.01	7A	7D	654.47	654.42	0.36	13.9	III	12
STH 57	7D	38WB+81	30	RT	660.24	CATCH BASIN 2x3-FT	H	7.82	7D	7B	654.42	654.30	0.30	40.1	III	12
STH 57	7B	39WB+12	55	RT	660.18	MANHOLE 4-FT DIAMETER	H	7.88	7B	7	654.30	654.10	0.56	35.5	III	12
STH 57	7C	40WB=08	9.8	LT	662.29	CATCH BASIN 2x3-FT	H	9.26	7C	7B	655.03	654.64	0.35	111.4	III	12
STH 57	8	39WB+03	129.8	RT		APRON ENDWALL 24-IN										
N. TEUTONIA AVE	9	95NB+26	30.8	RT	663.06	MANHOLE 5-FT DIAMETER	H	8.89	9	10	656.17	655.82	0.40	86.8	III	24
N. TEUTONIA AVE	9A	94NB+43	53.5	LT	662.33	CATCH BASIN 2x3-FT	H	7.70	9A	9	656.63	656.17	0.39	119.1	III	12
N. TEUTONIA AVE	9B	93NB+71	30.7	RT	661.68	CATCH BASIN 2x3-FT	H	5.50	9B	9	658.18	657.80	0.30	125.8	IV	12
N. TEUTONIA AVE	9C	95NB+35	13	LT	664.05	CATCH BASIN 2x3-FT	H	7.54	9C	9	658.51	658.37	0.32	44.3	IV	12
STH 57	10	39WB+80	55.7	LT	662.11	MANHOLE 4-FT DIAMETER	H	8.29	10	11	655.82	655.50	0.42	75.7	III	24
STH 57	11	39WB+17	71.3	LT	659.38	MANHOLE 5-FT DIAMETER	J	5.93	11	12	655.45	655.20	0.45	55.2	III	24
STH 57	11A	38WB+80	43.6	LT	659.54	CATCH BASIN 2x3-FT	H	5.26	11A	11	656.28	656.13	0.33	46.1	IV	12
STH 57	12	38WB+75	107.7	LT		APRON ENDWALL 24-IN										

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

STORM SEWER SUMMARY

611.2004 MANHOLES 4-FT DIAMETER EACH	611.2005 MANHOLES 5-FT DIAMETER EACH	611.1230 CATCH BASIN 2X3-FT EACH	611.3220 INLETS 2X2-FT EACH	522.1024 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH EACH	611.0530 MANHOLE COVERS TYPE J EACH	611.0606 INLET COVERS TYPE B EACH	611.0624 INLET COVERS TYPE H EACH	611.0652 INLET COVERS TYPE T EACH	611.8110 ADJUSTING MANHOLE COVERS EACH	608.0312 STORM SEWER PIPE REINFORCRED CONCRETE CLASS III 12-INCH LF	608.0324 STORM SEWER PIPE REINFORCRED CONCRETE CLASS III 24-INCH LF	608.0348 STORM SEWER PIPE REINFORCRED CONCRETE CLASS III 48-INCH LF	608.0412 STORM SEWER PIPE REINFORCRED CONCRETE CLASS IV 12-INCH LF	633.5200 MARKERS CULVERT END EACH	520.8000 CONCRETE COLLARS FOR PIPE EACH
8	4	16	1	2	9	1	21	2	2	667	897	8	263	2	2

CONSTRUCTION STAKING

	650.4000 CONSTRUCTION STAKING STORM SEWER EACH	650.4500 CONSTRUCTION STAKING SUBGRADE LF	650.7000 CONSTRUCTION STAKING CONCRETE PAVEMENT LF	650.8500 CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS (2565-07-70) LS	650.9000 CONSTRUCTION STAKING CURB RAMPS EACH	650.9910 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (2565-07-70) LS	650.9920 CONSTRUCTION STAKING SLOPE STAKES LF	SPV.0165.01 CONSTRUCTION STAKING SIDEWALK SF
	31	1,800	1,800	1	14	1	3,043	22,330
PROJECT TOTALS	31	1,800	1,800	1	14	1	3,043	22,330

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EROSION MAT

628.2006

EROSION MAT URBAN CLASS I TYPE A

ROADWAY	STATION	TO	STATION	OFFSET	SY
STH 57	36EB+65		40EB+00	50' LT	481
	36WB+65		39WB+06	35' RT	111
	38EB+63		39EB+71	50' LT	128
	39WB+06		39WB+71	60' RT	45
	39WB+06		104WB+00	55' RT	724
	39WB+87		98WB+70	90' RT	181
	94SB+60		104SB+00	105' LT	1391
	95NB+63		99NB+09	55' RT	379
	99SB+05		104SB+00	20' LT	326
TEUTONIA AVE	91NB+90		92NB+34	47' RT	30
	92NB+34		95NB+00	50' RT	355
	92SB+50		93SB+96	48' LT	58
	92NB+97		94NB+12	40' RT	74
	94NB+12		95NB+77	26' RT	104
	94SB+23		94SB+42	67' LT	29
	94SB+30		95SB+00	90' LT	144
	95NB+57		40EB+00	80' RT	98
UNDISTRIBUTED					200
			PROJECT TOTALS		4858

SILT FENCE

ROADWAY	STATION	TO	STATION	OFFSET	628.1504 SILT FENCE LF	SPV.0090.01 HEAVY DUTY SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF
STH 57	36EB+61		37EB+12	73' LT	49	--	49
	36WB+73		37WB+86	46' RT	133	--	133
	37EB+12		39EB+03	66' LT	--	188	188
	37WB+86		39WB+02	61' RT	--	123	123
	39WB+21		39WB+52	93' RT	--	41	41
	103SB+75		104SB+00	64' LT	24	--	24
TEAUTONIA AVE	91NB+89		94NB+00	61' RT	272	--	272
	92SB+47		94SB+28	66' LT	242	--	242
	94NB+00		39EB+25	84' RT	166	--	166
	94SB+28		95SB+72	122' LT	--	136	136
UNDISTRIBUTED					50	20	70
			PROJECT TOTALS		936	508	1444

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

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TOPSOIL

ROADWAY	STATION	TO	STATION	OFFSET	625.0100 TOPSOIL SY	625.0500 SALVAGED TOPSOIL SY
STH 57	36EB+65		39EB+82	LT	--	551
	36SB+65		40SB+00	50' LT	--	481
	36SB+65		39SB+06	35' RT	--	111
	38NB+63		39NB+71	50' LT	--	128
	39NB+06		39NB+71	60' RT	--	45
	39SB+06		104SB+00	55' RT	--	724
	39WB+85		40WB+08	LT	--	59
	39NB+87		98NB+70	90' RT	--	181
	94NB+60		104NB+00	105' LT	--	1391
	95SB+63		99SB+09	55' RT	--	379
	97SB+28		104SB+00	LT	--	1185
	99NB+05		104NB+00	20' LT	--	326
TEUTONIA AVE	91NB+90		92NB+34	47' RT	--	30
	91NB+90		95NB+52	30' LT	--	864
	92SB+50		93SB+96	48' LT	--	58
	92NB+34		95NB+00	50' RT	--	355
	92NB+97		94NB+12	40' RT	--	74
	94NB+12		95NB+77	26' RT	--	104
	94SB+23		94SB+42	67' LT	--	29
	94SB+30		95SB+00	90' LT	--	144
	95NB+57		40NB+00	80' RT	--	98
	95NB+47		95NB+80	10' LT	--	80
CENTER	0C+00		4C+08	LT	822	--
UNDISTRIBUTED	--		--	--	300	100
			PROJECT TOTALS		1122	7497

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

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SILT FENCE AND TEMPORARY DITCH CHECKS

ROADWAY	STATION	TO	STATION	OFFSET	628.1504 SILT FENCE LF	SPV.0090.01 HEAVY DUTY SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.7504 TEMPORARY DITCH CHECKS LF
STH 57	36EB+61		37EB+12	73' LT	49	--	49	--
	36WB+73		37WB+86	46' RT	133	--	133	--
	37EB+12		39EB+03	66' LT	--	188	188	--
	37WB+86		39WB+02	61' RT	--	123	123	--
	39WB+21		39WB+52	93' RT	--	41	41	--
	103SB+75		104SB+00	64' LT	24	--	24	--
TEAUTONIA AVE	91NB+89		94NB+00	61' RT	272	--	272	--
	92SB+47		94SB+28	66' LT	242	--	242	--
	94NB+00		39EB+25	84' RT	166	--	166	--
	94SB+28		95SB+72	122' LT	--	136	136	--
UNDISTRIBUTED					50	20	70	50
			PROJECT TOTALS		936	508	1444	50

SEEDING

ROADWAY	629.0205 FERTILIZER TYPE A CWT	630.0140 SEEDING MIXTURE NO. 40 LB	630.0200 SEEDING TEMPORARY LB	630.0500 SEED WATER MGAL
STH 57	5.6	236.5	6.0	20.2
UNDISTRIBUTED	0.4	0.5	1.0	0.8
PROJECT TOTALS	6	237	7	21

SOD ITEMS

ROADWAY	STATION	TO	STATION	OFFSET	631.0300 SOD WATER MGAL	631.1000 SOD LAWN SY
STH 57	36WB+65		39WB+82	LT	13	551
	39WB+85		40WB+08	LT	2	59
	97NB+28		104NB+00	LT	27	1185
TEUTONIA AVE	91NB+90		95NB+52	30' LT	20	864
	95NB+47		95NB+80	10' LT	2	80
CENTER	0C+00		4C+08	LT	7	304
UNDISTRIBUTED					2	120
			PROJECT TOTALS		73	3163

CULVERT PIPE CHECKS AND ROCK BAGS

ROADWAY	STATION	OFFSET	628.7555 CULVERT PIPE CHECKS EACH	628.7570 ROCK BAGS EACH
STH 57	38EB+50	117' LT	7	--
	38WB+92	143' RT	7	--
	UNDISTRIBUTED		--	30
	PROJECT TOTALS		14	30

RIPRAP

ROADWAY	STATION	OFFSET	606.0200 RIPRAP MEDIUM CY	645.0120 GEOTEXTILE TYPE HR SY
STH 57	38EB+50	117' LT	4	8
	38WB+92	143' RT	4	8
	PROJECT TOTALS		8	16

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

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MOBILIZATION EROSION CONTROL

LOCATION	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH
Project No. 2565-07-70	1	5
PROJECT TOTALS	1	5

FINISHING ROADWAY

LOCATION	213.0100 FINISHING ROADWAY (2565-07-70) EACH
Project No. 2565-07-70	1
PROJECT TOTALS	1

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MOBILIZATION

LOCATION	619.1000 MOBILIZATION EACH
Project No. 2565-07-70	1
PROJECT TOTALS	1

TRAFFIC CONTROL

LOCATION	643.5000 TRAFFIC CONTROL EACH
Project No. 2565-07-70	1
PROJECT TOTALS	1

DUST CONTROL

LOCATION	624.0100* WATER MGAL	628.7560 TRACKING PADS EACH
Project No. 2565-07-70	536	2
PROJECT TOTALS	536	2

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

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TRAFFIC CONTROL ITEMS

2270-04-70 STAGE	ROADWAY	LOCATION	STAGE DURATION	643.0300 TRAFFIC CONTROL DRUMS		643.0420 TRAFFIC CONTROL BARRICADES TYPE III		643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A		643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C		643.0900 TRAFFIC CONTROL SIGNS		643.0800 TRAFFIC CONTROL ARROW BOARDS	
			DAYS	NO.	DAYS	NO.	DAYS	NO.	DAYS	NO.	DAYS	NO.	DAYS	NO.	DAYS
2	TEUTONIA AVE		30	28	840	11	330	22	660	13	390	14	420	1	30
	STH 57			28	840	9	270	18	540	--	--	7	210	--	--
		STAGE 2 SUBTOTAL			1680		600		1200		390		630		30
3-5	TEUTONIA AVE		236	28	6608	14	3304	28	6608	13	3068	15	3540	1	236
	STH 57			28	6608	11	2596	22	5192	--	--	11	2596	--	--
		STAGE 3-5 SUBTOTAL			13216		5900		11800		3068		6136		236
		UNDISTRIBUTED			298		130		260		69		135		5
		PROJECT TOTALS			15194		6630		13260		3527		6901		271

PEDESTRIAN ACCOMMODATIONS

2270-04-70 STAGE	ROADWAY	616.0700.S FENCE SAFETY	644.1430 TEMPORARY PEDESTRIAN SURFACE PLATE	644.1601 TEMPORARY PEDESTRIAN CURB RAMP	644.1810 TEMPORARY PEDESTRIAN BARRICADE	644.1410 TEMPORARY PEDESTRIAN SURFACE ASPHALT
		LF	SF	DAY	LF	SF
3-5	TEUTONIA AVE	310	960	536	300	1600
	PROJECT TOTAL	310	960	536	300	1600

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

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PAVEMENT MARKING ITEMS

ROADWAY	LOCATION		646.1020 MARKING LINE EPOXY 4-INCH YELLOW LF	646.1020 MARKING LINE EPOXY 4-INCH WHITE LF	646.1545 LINE GROOVED WET REF CONTRAST EPOXY 4-INCH WHITE LF	646.3020 MARKING LINE EPOXY 8-INCH WHITE LF	646.3545 MARKING LINE GROOVED WET REF CONTRAST EPOXY 8- INCH WHITE LF	SPV.0060.17 MARKING CONTRAST EPOXY SPECIAL MARKING ARROW EACH	SPV.0060.18 MARKING CONTRAST EPOXY SPECIAL MARKING WORDS EACH	646.6320 MARKING DOTTED EXTENSION EPOXY 18-INCH LF	646.7120 MARKING DIAGONAL EPOXY 12-INCH LF	646.7520 MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH LF	646.8220 MARKING ISLAND NOSE EPOXY EACH
STH 57	36WB+65	40WB+15	329	250	16	10	226	6	2	17	--	35	2
	25EB+00	40EB+15	325	1479	--	217	--	2	1	--	354	24	1
	97NB+21	104NB+00	659	591	163	14	382	1	--	--	--	25	2
	97SB+22	104SB+00	647	489	132	14	281	4	2	27	--	29	1
TEUTONIA	91NB+90	95NB+75	--	215	64	15	295	4	2	24	--	29	1
	92SB+51	95SB+87	--	277	75	14	--	--	--	--	--	25	1
Center	0C+00	4C+06	--	--	--	197	144	6	--	--	--	--	--
PROJECT TOTALS			5261		450	481	1328	23	7	67	354	167	8

TEMPORARY PAVEMENT MARKING

2270-04-70 STAGE	ROADWAY	LOCATION	649.0150 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH YELLOW LF	649.0150 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH WHITE LF	649.0960 TEMPORARY MARKING REMOVABLE MASK OUT TAPE 6-INCH BLACK LF
2	TEUTONIA AVE		705	--	80
	STH 57		--	1244	--
		PROJECT TOTALS	1949		80

ALL ITEMS ARE CATEGORY 0030 UNLESS OTHERWISE NOTED

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UTILITIES

LOCATION	204.0250 ABANDONING MANHOLES EACH	SPV.0060.13 ADJUSTING VILLAGE OF BROWN DEER SANITARY MANHOLE COVERS EACH	SPV.0060.14 ADJUSTING VILLAGE OF BROWN DEER WATER BOXES EACH
STA 102+90 26' LT	1	1	1
PROJECT TOTALS	1	1	1

TYPE II SIGN REMOVAL **2565-07-70 STH 57**

SIGN NO.	SIGN CODE	SIGN MESSAGE	638.2602 REMOVING SIGNS TYPE II [EA]	638.3000 REMOVING SMALL SIGN SUPPORTS [EA]	REMARKS / SIGN LOCATION
1R	W11-1	--	1	1	ALSO REMOVE W16-9P
2R	W11-1	--	1	1	ALSO REMOVE W16-9P
3R	J1-1	--	1	1	ALSO REMOVE "Green Bay Rd"
4R	R1-1	--	1	1	--
5R	R5-3	--	1	1	--
6R	W11-1	--	1	1	ALSO REMOVE W16-7L
7R	W11-1	--	1	1	ALSO REMOVE W16-7R
8R	R1-1	--	1	1	--
9R	R1-1	--	1	1	--
10R	W11-1	--	1	1	ALSO REMOVE W16-7R
11R	W11-1	--	1	1	ALSO REMOVE W16-7L
12R	R5-3	--	1	1	--
13R	R1-1	--	1	1	--
14R	J3-2	--	1	1	--
15R	R6-2L	--	1	1	--
16R	R1-1	--	1	1	ALSO REMOVE R5-1 AND W4-4AR
17R	R1-1	--	1	1	ALSO REMOVE R5-1 AND W4-4AR
18R	J3-1	--	1	1	--
19R	J3-1	--	1	1	--
20R	M1-94	--	1	1	--
21R	W11-1	--	1	1	ALSO REMOVE W16-9P
22R	W11-1	--	1	1	ALSO REMOVE W16-9P
23R	R2-1	--	1	1	--
24R	W4-1	--	1	1	--
25R	R2-1	--	1	1	--
26R	J3-1	--	1	1	--
27R	J3-1	--	1	1	--
28R	J3-1	--	1	1	--
29R	R7-1D	--	1	1	--
30R	W3-1	--	1	1	ALSO REMOVE M1-6

3

TYPE II SIGN REMOVAL **2565-07-70 STH 57**

SIGN NO.	SIGN CODE	SIGN MESSAGE	638.2602 REMOVING SIGNS TYPE II [EA]	638.3000 REMOVING SMALL SIGN SUPPORTS [EA]	REMARKS / SIGN LOCATION
31R	W3-1	--	1	1	ALSO REMOVE M1-6
32R	M1-85	--	1	1	--
33R	R7-1	--	1	1	--
34R	J3-1	--	1	1	--
35R	R1-1	--	1	1	--
36R	W4-2R	--	1	1	--
37R	W4-2L	--	1	1	--
38R	W9-1R	--	1	1	--
39R	R1-1	--	1	1	--
40R	R2-1	--	1	1	--
41R	R2-1	--	1	1	--
42R	W5-52R	--	1	1	--
43R	R7-1L	--	1	1	--
44R	R1-2	--	1	1	--
45R	W4-1	--	1	1	--
46R	W1-8	--	1	1	--
47R	W1-8	--	1	1	--
48R	W5-52R	--	1	1	--
49R	W1-1R	--	1	1	ALSO REMOVE W13-1
50R	W1-1R	--	1	1	ALSO REMOVE W13-1
	TOTALS		50	50	

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SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.] x H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	634.0618 WOOD POSTS 4"X 6"x18' [EA]	634.0622 WOOD POSTS 4"X 6"x22' [EA]	634.0814 POSTS TUBULAR STEEL 2"X2"X14' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
1	J1-1(2M)	--	24 x 39	6.500	--	1	--	--	--	--	--
	M2-1	--	21 x 15								
	M1-6	STH 57	24 x 24								
2	J1-1(2M)	--	24 x 39	6.500	--	1	--	--	--	--	--
	M2-1	--	21 x 15								
	M1-6	STH 57	24 x 24								
3	R6-2R(2S)	--	24 x 30	5.000	--	1	--	--	--	--	--
4	W2-6(2M)	--	30 x 30	--	6.250	1	--	--	--	--	TEMPORARY FLAGS INCIDENTAL
5	W13-1(2M)	15 MPH	18 x 18	--	2.250	--	--	--	--	4	--
6	W2-6(2M)	--	30 x 30	--	6.250	1	--	--	--	--	TEMPORARY FLAGS INCIDENTAL
7	W13-1(2M)	15 MPH	18 x 18	--	2.250	--	--	--	--	6	--
8	J2-2(2M)	--	48 x 57	19.000	--	1	--	--	--	--	--
	M3-1	NORTH	24 x 12								
	M1-6	STH 57	24 x 24								
	M6-1	--	21 x 21								
	M3-3	SOUTH	24 x 12								
	M1-6	STH 57	24 x 24								
	M5-1R	--	21 x 21								
9	J2-2(2M)	--	48 x 57	19.000	--	1	--	--	--	--	--
	M3-1	NORTH	24 x 12								
	M1-6	STH 57	24 x 24								
	M6-1	--	21 x 21								
	M3-3	SOUTH	24 x 12								
	M1-6	STH 57	24 x 24								
	M5-1R	--	21 x 21								
10	W11-15(2M)	--	36 x 36	--	9.000	1	--	--	--	--	--
11	W16-9P(2M)	--	30 x 18	--	3.750	--	--	--	--	10	--
12	W11-15(2M)	--	36 x 36	--	9.000	1	--	--	--	--	--
13	W16-9P(2M)	--	30 x 18	--	3.750	--	--	--	--	12	--
14	W3-2(2M)	--	36 x 36	--	9.000	1	--	--	--	--	TEMPORARY FLAGS INCIDENTAL
15	W3-2(2M)	--	36 x 36	--	9.000	1	--	--	--	--	TEMPORARY FLAGS INCIDENTAL

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	634.0618 WOOD POSTS 4"X 6"x18' [EA]	634.0622 WOOD POSTS 4"X 6"x22' [EA]	634.0814 POSTS TUBULAR STEEL 2"X2"X14' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
16	J3-2(2M)	--	48	x	57	19.000	--	1	--	--	--	--	--
	M3-1	NORTH	24	x	12								
	M1-6	STH 57	24	x	24								
	M6-1	--	21	x	21								
	M3-3	SOUTH	24	x	12								
	M1-6	STH 57	24	x	24								
	M6-1	--	21	x	21								
17	R3-5A(2M)	--	42	x	48	14.000	--	--	--	--	--	--	INSTALL ON S-40-669
18	R3-6R(2M)	--	42	x	48	14.000	--	--	--	--	--	--	INSTALL ON S-40-669
19	M1-94H	N GREEN BAY RD	108	x	18	13.500	--	--	--	--	--	--	INSTALL ON S-40-669
20	J3-2(2M)	--	48	x	57	19.000	--	--	--	--	--	--	MOUNT ON UPRIGHT S-40-669
	M3-1	NORTH	24	x	12								
	M1-6	STH 57	24	x	24								
	M6-1	--	21	x	21								
	M3-3	SOUTH	24	x	12								
	M1-6	STH 57	24	x	24								
	M6-1	--	21	x	12								
21	R2-1(2M)	40 MPH	30	x	36	7.500	--	1	--	--	--	--	--
22	R2-1(2M)	40 MPH	30	x	36	7.500	--	1	--	--	--	--	--
23	M1-5A(2M)	CTH D	24	x	24	4.000	--	1	--	--	--	--	--
24	R1-6(2M)	--	12	x	36	3.000	--	--	--	1	--	--	2 FT MOUNT HEIGHT
25	--	OAK LEAF TRAIL	--	x	--	--	--	--	--	--	1	26	MOVE SIGN
26	R5-3(2S)	--	24	x	24	4.000	--	1	--	--	--	--	--
27	W11-15(2M)	--	36	x	36	--	9.000	--	--	1	--	--	--
28	W16-7L(2M)	--	30	x	18	--	3.750	--	--	--	--	27	--
29	D1-2	[D] N TEUTONIA AVE [A]	90	x	30	18.750	--	--	--	2	--	--	--
30	R1-2(2S)	--	36	x	31	3.880	--	--	--	1	--	--	TEMPORARY FLAGS INCIDENTAL
31	R6-2R(2S)	--	24	x	30	5.000	--	--	--	--	--	30	--
32	R1-2(2S)	--	36	x	31	3.880	--	--	--	1	--	--	TEMPORARY FLAGS INCIDENTAL
33	R6-2R(2S)	--	24	x	30	5.000	--	--	--	--	--	32	--
34	R6-1R(2S)	--	36	x	12	3.000	--	--	--	2	--	--	--
35	R6-4B(2S)	--	60	x	24	10.000	--	--	--	--	--	34	--

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	634.0618 WOOD POSTS 4"X 6"x18' [EA]	634.0622 WOOD POSTS 4"X 6"x22' [EA]	634.0814 POSTS TUBULAR STEEL 2"X2"X14' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
36	R6-1R(2S)	--	36	x	12	3.000	--	--	--	2	--	--	--
37	R6-4B(2S)	--	60	x	24	10.000	--	--	--	--	--	36	--
38	R6-1R(2S)	--	36	x	12	3.000	--	--	--	2	--	--	--
39	R6-4B(2S)	--	60	x	24	10.000	--	--	--	--	--	38	--
40	D1-2	[57] NORTH N GREEN BAY RD [A]	90	x	42	26.250	--	--	--	3	--	--	--
41	R1-2(2S)	--	36	x	31	3.880	--	--	--	1	--	--	TEMPORARY FLAGS INCIDENTAL
42	R1-54(2S)	--	24	x	15	2.500	--	--	--	--	--	41	--
43	R1-2(2S)	--	36	x	31	3.880	--	--	--	1	--	--	TEMPORARY FLAGS INCIDENTAL
44	R6-2R(2S)	--	24	x	30	5.000	--	--	--	--	--	43	--
45	--	OAK LEAF TRAIL	--	x	--	--	--	--	--	--	1	46	MOVE SIGN
46	R5-3(2S)	--	24	x	24	4.000	--	1	--	--	--	--	--
47	R1-6(2M)	--	12	x	36	3.000	--	--	--	1	--	--	2 FT MOUNT HEIGHT
48	NOT USED	--	30	x	18	--	3.750	--	--	--	--	47	--
49	W11-15(2M)	--	36	x	36	--	9.000	--	--	1	--	--	--
50	W16-7L(2M)	--	30	x	18	--	3.750	--	--	--	--	49	--
51	J3-1(2M)	--	24	x	69	11.500	--	1	--	--	--	--	--
	MB4-1	ALTERNATE	24	x	12								
	MB3-3	SOUTH	24	x	12								
	M1-1	IH 43	24	x	24								
	MB6-1	--	21	x	21								
52	W11-15(2M)	--	36	x	36	--	9.000	1	--	--	--	--	--
53	W16-9P(2M)	--	30	x	18	--	3.750	--	--	--	--	53	--
54	W11-15(2M)	--	36	x	36	--	9.000	1	--	--	--	--	--
55	W16-9P(2M)	--	30	x	18	--	3.750	--	--	--	--	55	--
56	J3-2(2M)	--	48	x	57	19.000	--	1	--	--	--	--	--
	M3-3	SOUTH	24	x	12								
	M1-6	STH 57	24	x	24								
	M6-1	--	21	x	21								
	M3-3	SOUTH	24	x	12								
	M1-5A	CTH D	24	x	24								
	M6-1	--	21	x	21								

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	634.0618 WOOD POSTS 4"X 6"x18' [EA]	634.0622 WOOD POSTS 4"X 6"x22' [EA]	634.0814 POSTS TUBULAR STEEL 2"X2"X14' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
57	M1-94H	N GREEN BAY RD	108	x	18	13.500	--	--	--	--	--	--	INSTALL ON S-40-3090
58	R3-5A(2M)	--	42	x	48	14.000	--	--	--	--	--	--	INSTALL ON S-40-3090
59	R3-6X(2M)	--	42	x	48	14.000	--	--	--	--	--	--	INSTALL ON S-40-3090
60	J3-2(2M)	--	48	x	57	19.000	--	--	--	--	--	--	MOUNT ON UPRIGHT S-40-3090
	M3-3	SOUTH	24	x	12								
	M1-6	STH 57	24	x	24								
	M6-1	--	21	x	21								
	M3-3	SOUTH	24	x	12								
	M1-5A	CTH D	24	x	24								
	M6-1	--	21	x	21								
61	W3-2(2M)	--	36	x	36	--	9.000	1	--	--	--	--	TEMPORARY FLAGS INCIDENTAL
62	W3-2(2M)	--	36	x	36	--	9.000	1	--	--	--	--	TEMPORARY FLAGS INCIDENTAL
63	R7-1D(2M)	--	24	x	30	5.000	--	--	--	1	--	--	--
64	D1-62	[D] N TEUTONIA AVE [57] SOUTH N GREEN BAY RD	132	x	72	66.000	--	--	3	--	--	--	--
65	R7-1D(2M)	--	24	x	30	5.000	--	--	--	1	--	--	--
66	J3-1(2M)	--	24	x	69	11.500	--	1	--	--	--	--	--
	MB4-1	ALTERNATE	24	x	12								
	MB3-1	NORTH	24	x	12								
	M1-1	IH 43	24	x	24								
	MB6-1	--	21	x	21								
67	W11-2(2M)	--	36	x	36	--	9.000	1	--	--	--	--	--
68	W16-9P(2M)	--	30	x	18	--	3.750	--	--	--	--	67	--
69	W11-2(2M)	--	36	x	36	--	9.000	1	--	--	--	--	--
70	W16-9P(2M)	--	30	x	18	--	3.750	--	--	--	--	69	--
71	R2-1(2M)	40 MPH	30	x	36	7.500	--	1	--	--	--	--	--
72	R2-1(2M)	40 MPH	30	x	36	7.500	--	1	--	--	--	--	--
73	W4-2R(2M)	--	36	x	36	--	9.000	1	--	--	--	--	--

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	634.0618 WOOD POSTS 4"X 6"x18' [EA]	634.0622 WOOD POSTS 4"X 6"x22' [EA]	634.0814 POSTS TUBULAR STEEL 2"X2"X14' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
74	J4-1(2M)	--	24	x	36	6.000	--	--	--	1	--	--	--
	M3-1	NORTH	24	x	12								
	M1-6	STH 57	24	x	24								
75	W2-6(2M)	--	30	x	30	--	6.250	1	--	--	--	--	TEMPORARY FLAGS INCIDENTAL
76	W13-1(2M)	15 MPH	18	x	18	--	2.250	--	--	--	--	75	--
77	W2-6(2M)	--	30	x	30	--	6.250	1	--	--	--	--	TEMPORARY FLAGS INCIDENTAL
78	W13-1(2M)	15 MPH	18	x	18	--	2.250	--	--	--	--	77	--
79	J1-1(2M)	--	24	x	39	6.500	--	1	--	--	--	--	--
	M2-1	--	21	x	15								
	M1-5A	CTH D	24	x	24								
80	J1-1(2M)	--	24	x	39	6.500	--	1	--	--	--	--	--
	M2-1	--	21	x	15								
	M1-5A	CTH D	24	x	24								
81	R1-1(3)	--	36	x	36	7.460	--	1	--	--	--	--	--
82	R6-3A(2S)	--	30	x	24	5.000	--	--	--	--	--	81	--
83	R5-1(2M)	--	36	x	36	9.000	--	1	--	--	--	--	--
84	NOT USED	--	--	x	--	--	--	--	--	--	--	--	--
85	R6-2L(2S)	--	24	x	30	5.000	--	1	--	--	--	--	--
86	W2-6(2M)	--	30	x	30	--	6.250	1	--	--	--	--	TEMPORARY FLAGS INCIDENTAL
87	W13-1(2M)	15 MPH	18	x	18	--	2.250	--	--	--	--	86	--
88	W2-6(2M)	--	30	x	30	--	6.250	1	--	--	--	--	TEMPORARY FLAGS INCIDENTAL
89	W13-1(2M)	15 MPH	18	x	18	--	2.250	--	--	--	--	88	--
90	J2-2(2M)	--	48	x	57	19.000	--	1	--	--	--	--	--
	M1-5A	CTH D	24	x	24								
	M5-1L	--	21	x	21								
	M3-1	NORTH	24	x	12								
	M1-6	STH 57	24	x	24								
	M5-1R	--	21	x	21								

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	634.0618 WOOD POSTS 4"X 6"x18' [EA]	634.0622 WOOD POSTS 4"X 6"x22' [EA]	634.0814 POSTS TUBULAR STEEL 2"X2"X14' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
91	J2-2(2M)	--	48	x	57	19.000	--	1	--	--	--	--	--
	M1-5A	CTH D	24	x	24								
	M5-1L	--	21	x	21								
	M3-1	NORTH	24	x	12								
	M1-6	STH 57	24	x	24								
	M5-1R	--	21	x	21								
92	R6-2L(2S)	--	24	x	30	5.000	--	1	--	--	--	--	--
93	NOT USED	--	--	x	--	--	--	--	--	--	--	--	--
94	R4-7(2M)	--	24	x	30	5.000	--	1	--	--	--	--	--
95	R4-7(2M)	--	24	x	30	5.000	--	1	--	--	--	--	--
96	R1-1(3)	--	36	x	36	7.460	--	1	--	--	--	--	--
97	R6-3A(2S)	--	30	x	24	5.000	--	--	--	--	--	96	--
98	R5-1(2M)	--	36	x	36	9.000	--	1	--	--	--	--	--
99	W3-2(2M)	--	36	x	36	--	9.000	1	--	--	--	--	TEMPORARY FLAGS INCIDENTAL
100	W3-2(2M)	--	36	x	36	--	9.000	--	--	--	--	98	TEMPORARY FLAGS INCIDENTAL
101	R2-1(2M)	40 MPH	30	x	36	7.500	--	--	--	--	--	--	--
102	R2-1(2M)	40 MPH	30	x	36	7.500	--	--	--	--	--	--	--
103	J4-1(2M)	--	24	x	36	6.000	--	--	--	--	--	--	--
	M3-3	SOUTH	24	x	12								
	M1-6	STH 57	24	x	24								
104	R7-1L(2M)	--	24	x	30	5.000	--	--	--	1	--	--	--
105	W5-52R(2M)	--	12	x	36	--	3.000	1	--	--	--	--	4 FT MOUNT HEIGHT
106	W11-15(2M)	--	36	x	36	--	9.000	--	--	1	--	--	--
107	W16-7L(2M)	--	30	x	18	--	3.750	--	--	--	--	106	--
108	R1-6(2M)	--	12	x	36	3.000	--	--	--	1	--	--	2 FT MOUNT HEIGHT
109	D1-2	[57] SOUTH	90	x	30	18.750	--	--	--	2	--	--	--
		N GREEN BAY RD [A]											
110	J3-2(2M)	--	48	x	57	19.000	--	1	--	--	--	--	--
	M1-5A	CTH D	24	x	24								
	M6-1	--	21	x	21								
	M3-1	NORTH	24	x	12								
	M1-6	STH 57	24	x	24								
	M6-1	--	21	x	21								

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.]	x	SIGN SIZE H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	634.0618 WOOD POSTS 4"X 6"x18' [EA]	634.0622 WOOD POSTS 4"X 6"x22' [EA]	634.0814 POSTS TUBULAR STEEL 2"X2"X14' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
111	R3-5X(2M)	--	42	x	48	14.000	--	--	--	--	--	--	INSTALL ON S-40-3091
111A	--	TO RUTH PL	42	x	12	3.500	--	--	--	--	--	--	INSTALL ON S-40-3091
112	R3-5R(2M)	--	42	x	48	14.000	--	--	--	--	--	--	INSTALL ON S-40-3091
113	M1-94H	N TEUTONIA AVE	102	x	18	12.750	--	--	--	--	--	--	INSTALL ON S-40-3091
114	J3-2(2M)	--	48	x	57	19.000	--	--	--	--	--	--	MOUINT ON UPRIGHT S-40-3091
	M1-5A	CTH D	24	x	24								
	M6-1	--	21	x	21								
	M3-1	NORTH	24	x	12								
	M1-6	STH 57	24	x	24								
	M6-1	--	21	x	21								
115	J3-1(2M)	--	24	x	69	11.500	--	1	--	--	--	--	--
	MB4-1	ALTERNATE	24	x	12								
	MB3-1	NORTH	24	x	12								
	M1-1	IH 43	24	x	24								
	MB6-1		21	x	21								
116	W11-15(2M)	--	36	x	36	--	9.000	1	--	--	--	--	--
117	W16-9P(2M)	--	30	x	18	--	3.750	--	--	--	--	116	--
118	W11-15(2M)	--	36	x	36	--	9.000	1	--	--	--	--	--
119	W16-9P(2M)	--	30	x	18	--	3.750	--	--	--	--	118	--
120	W12-1D(2S)	--	24	x	24	--	4.000	--	--	1	--	--	2 FT MOUNT HEIGHT
121	W5-52R(2M)	--	12	x	36	--	3.000	--	--	1	--	--	4 FT MOUNT HEIGHT
122	W11-15(2M)	--	36	x	36	--	9.000	--	--	1	--	--	--
123	W16-7L(2M)	--	30	x	18	--	3.750	--	--	--	--	122	--
124	R1-2(2S)	--	36	x	31	3.880	--	--	--	1	--	--	TEMPORARY FLAGS INCIDENTAL
125	R6-2R(2S)	--	24	x	30	5.000	--	--	--	--	--	124	--
126	W11-15(2M)	--	36	x	36	--	9.000	--	--	1	--	--	--
127	W16-7L(2M)	--	30	x	18	--	3.750	--	--	--	--	126	--
128	R1-2(2S)	--	36	x	31	3.880	--	--	--	1	--	--	TEMPORARY FLAGS INCIDENTAL
129	R1-54(2S)	--	24	x	15	2.500	--	--	--	--	--	128	--
130	W9-1R(2M)	--	36	x	36	--	9.000	--	--	1	--	--	--
131	W11-15(2M)	--	36	x	36	--	9.000	--	--	1	--	--	SHEET 2
132	W16-7L(2M)	--	30	x	18	--	3.750	--	--	--	--	131	SHEET 2
133	R1-6(2M)	--	12	x	36	3.000	--	--	--	1	--	--	SHEET 2 - 2 FT MOUNT HEIGHT
134	R1-6(2M)	--	12	x	36	3.000	--	--	--	1	--	--	SHEET 2 - 2 FT MOUNT HEIGHT
135	R1-6(2M)	--	12	x	36	3.000	--	--	--	1	--	--	SHEET 6 - 2 FT MOUNT HEIGHT
136	R1-6(2M)	--	12	x	36	3.000	--	--	--	1	--	--	SHEET 6 - 2 FT MOUNT HEIGHT
137	W11-15(2M)		36	x	36	--	9.000	--	--	1	--	--	SHEET 2
138	W16-7L(2M)	--	30	x	18	--	3.750	--	--	--	--	137	SHEET 2
TOTALS						767.700	328.000	51	3	40	2		

3

LIGHTING AND MISCELLANEOUS - FINAL

CATEGORY	DESCRIPTION	LOCATION	653.0135* PULL BOXES STEEL 24x36- INCH EACH	653.0140* PULL BOXES STEEL 24x42-INCH EACH	654.0105* CONCRETE BASES TYPE 5 EACH	655.0610* ELECTRICAL WIRE LIGHTING 12 AWG LF	SPV.0060.63* TRANSFORMER BASE BREAKAWAY 11 1/2-INCH BOLT CIRCLE BLACK EACH	SPV.0060.65* POLES TYPE 5- ALUMINUM BLACK EACH	SPV.0060.87* LUMINAIRES UTILITY LED C BLACK EACH	SPV.0060.88* LUMINAIRE ARMS SINGLE MEMBER 4 1/2-INCH CLAMP 8-FT BLACK EACH	REMARKS
0020	LP-PB-1	2C+18.27, 69.1'RT	1	--	--	--	--	--	--	--	
	AGBT1	39EB+99.17, 31.7'LT	--	--	1	120	1	1	1	1	
	LP-PB-2	39EB+50.98, 34.8'LT	--	1	--	--	--	--	--	--	
	BGBT1	39EB+03.16, 32.4'LT	--	--	1	120	1	1	1	1	
	LP-PB-3	1B+04.61, 27.0'RT	--	1	--	--	--	--	--	--	
	AGBT2	1B+18.23, 24.5'RT	--	--	1	120	1	1	1	1	
	BGBT2	38WB+17.43, 51.7'RT	--	--	1	120	1	1	1	1	
	AGBT3	36WB+79.68, 40.9'RT	--	--	1	120	1	1	1	1	
	LP-PB-4	1B+78.59, 25.2'RT	--	1	--	--	--	--	--	--	
	LP-PB-5	1B+80.17, 23.9'LT	--	1	--	--	--	--	--	--	
	BGBT3	1B+92.81, 20.9'LT	--	--	1	120	1	1	1	1	
	AGBT4	2B+33.20, 25.1'RT	--	--	1	120	1	1	1	1	
	BGBT4	98NB+43.19, 47.4'RT	--	--	1	120	1	1	1	1	
	AGBT5	99NB+92.31, 51.1'RT	--	--	1	120	1	1	1	1	
	CGBT1	94TNB+79.52, 37.7'RT	--	--	1	120	1	1	1	1	
	LP-PB-6	94TNB+22.09, 31.4'RT	--	1	--	--	--	--	--	--	
	DGBT1	93TNB+42.28, 38.2'RT	--	--	1	120	1	1	1	1	
	CGBT2	92TNB+44.01, 48.8'RT	--	--	1	120	1	1	1	1	
	LP-PB-7	94TSB+07.22, 37.1'LT	--	1	--	--	--	--	--	--	
	DGBT2	94TSB+16.78, 36.8'LT	--	--	1	120	1	1	1	1	
	CGBT3	95TSB+37.86, 32.2'LT	--	--	1	120	1	1	1	1	
	DGBT3	0C+84.23, 34.0'RT	--	--	1	120	1	1	1	1	
	CGBT4	0C+21.93, 38.0'RT	--	--	1	120	1	1	1	1	
	DGBT4	98SB+67.33, 30.7'LT	--	--	1	120	1	1	1	1	
	CGBT5	99SB+88.10, 34.5'LT	--	--	1	120	1	1	1	1	
	DGBT5	101SB+53.88, 34.0'LT	--	--	1	120	1	1	1	1	
	CGBT6	103SB+29.49, 33.9'LT	--	--	1	120	1	1	1	1	
		TOTALS	1	6	20	2,400	20	20	20	20	

* =ADDITIONAL QUANTITIES SHOWN ELSEWHERE

FILE NAME: S:\DOT\DOT_SE\180041 Green Bay Rd; Teutonia Intersection\Design\Elect\RAB_STH57_&_Teutonia
ORIGINATOR: Dennis Fleischfresser
ORIG. DATE: October 28, 2019
PLOTTED DATE: 3/21/2021 10:50 AM

CATEGORY	FROM	TO	652.0225* CONDUIT RIGID NONMETALLIC SCHEDULE 40 2 -INCH LF	652.0235* CONDUIT RIGID NONMETALLIC SCHEDULE 40 3 -INCH LF	655.0615* ELECTRICAL WIRE LIGHTING 10 AWG LF	REMARKS
0020	HL-40-GBT	LP-PB-1	--	70	616	
	HL-40-GBT	LP-PB-1	--	38	--	
	LP-PB-1	AGBT1	51	--	233	
	AGBT1	LP-PB-2	49	--	394	
	LP-PB-2	BGBT1	49	--	167	
	LP-PB-2	LP-PB-3	--	125	526	
	LP-PB-3	BGBT2	125	--	1058	
	BGBT2	AGBT3	149	--	467	
	LP-PB-3	AGBT2	17	--	94	
	AGBT2	LP-PB-4	56	--	253	
	LP-PB-4	LP-PB-5	--	54	490	
	LP-PB-5	BGBT3	19	--	206	
	LP-PB-4	AGBT4	56	--	250	
	AGBT4	BGBT4	94	--	402	
	BGBT4	AGBT5	153	--	481	
	LP-PB-1	CGBT1	69	--	302	
	CGBT1	LP-PB-6	47	--	434	
	LP-PB-6	DGBT1	85	--	368	
	DGBT1	CGBT2	107	--	341	
	LP-PB-6	LP-PB-7	--	97	414	
	LP-PB-7	DGBT2	15	--	86	
	DGBT2	CGBT3	127	--	536	
	CGBT3	DGBT3	82	--	356	
	DGBT3	CGBT4	101	--	432	
	CGBT4	DGBT4	149	--	625	
	DGBT4	CGBT5	126	--	532	
	CGBT5	DGBT5	174	--	725	
	DGBT5	CGBT6	179	--	557	
	TOTALS		2,078	383	11,347	

* =ADDITIONAL QUANTITIES SHOWN ELSEWHERE

LIGHTING -LIGHTING CONTROL CABINETS

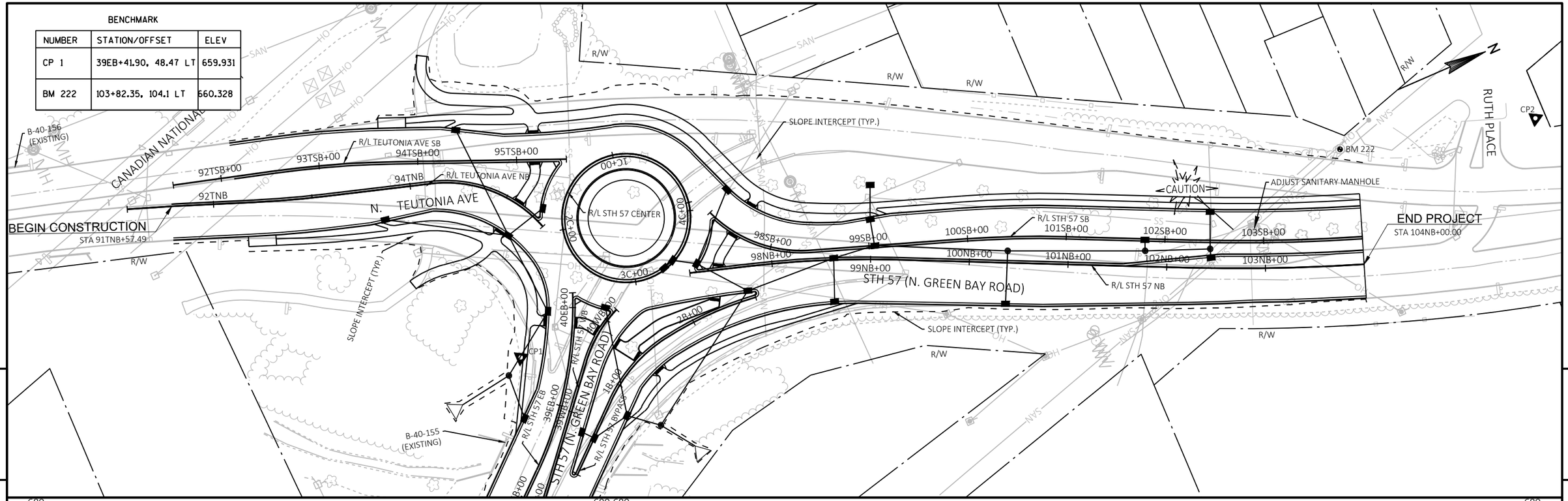
CATEGORY	STAGE	DESCRIPTION	LOCATION	654.0230 CONCRETE CONTROL CABINET BASES TYPE L30 EACH	659.2230 LIGHTING CONTROL CABINET 240/480 30-INCH EACH	REMARKS
0020		HL-40-GBT	2C+25.62, 97.0'RT	1	1	
			TOTALS	1	1	

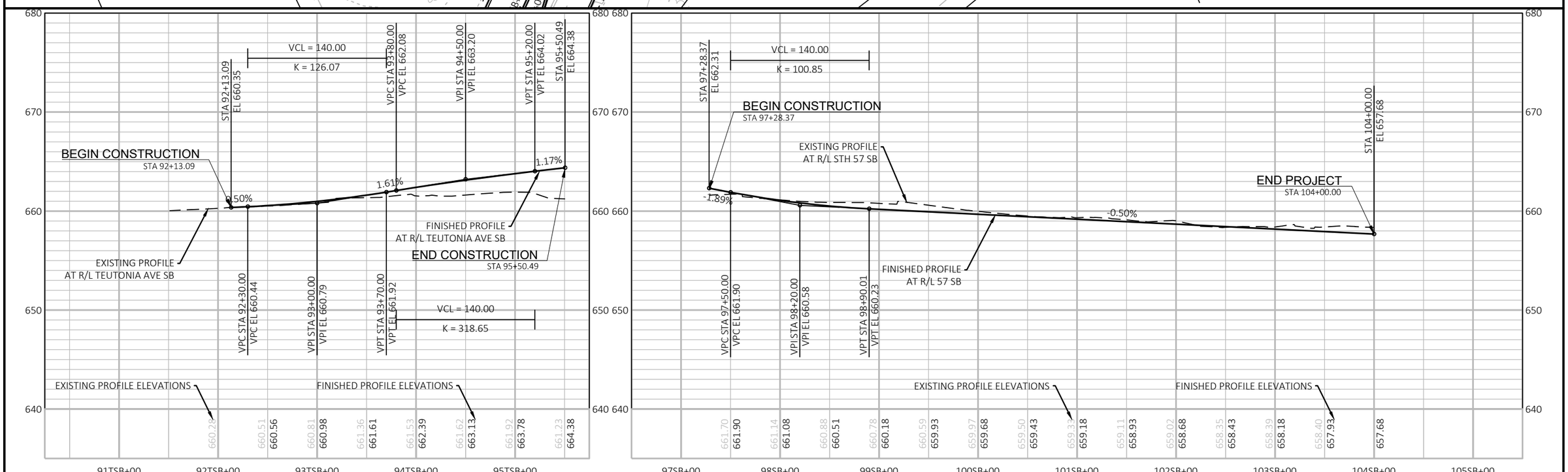
LIGHTING -LIGHTING CONTROL CABINETS - ELECTRICAL SERVICE

CATEGORY	STAGE	DESCRIPTION	LOCATION	656.0400.01 ELECTRICAL SERVICE MAIN LUGS ONLY METER PEDESTAL (HL-40-GBT) LS	REMARKS
0020		HL-40-GBT	2C+25.62, 97.0'RT	1	
			TOTAL	1	

BENCHMARK

NUMBER	STATION/OFFSET	ELEV
CP 1	39EB+41.90, 48.47 LT	659.931
BM 222	103+82.35, 104.1 LT	660.328



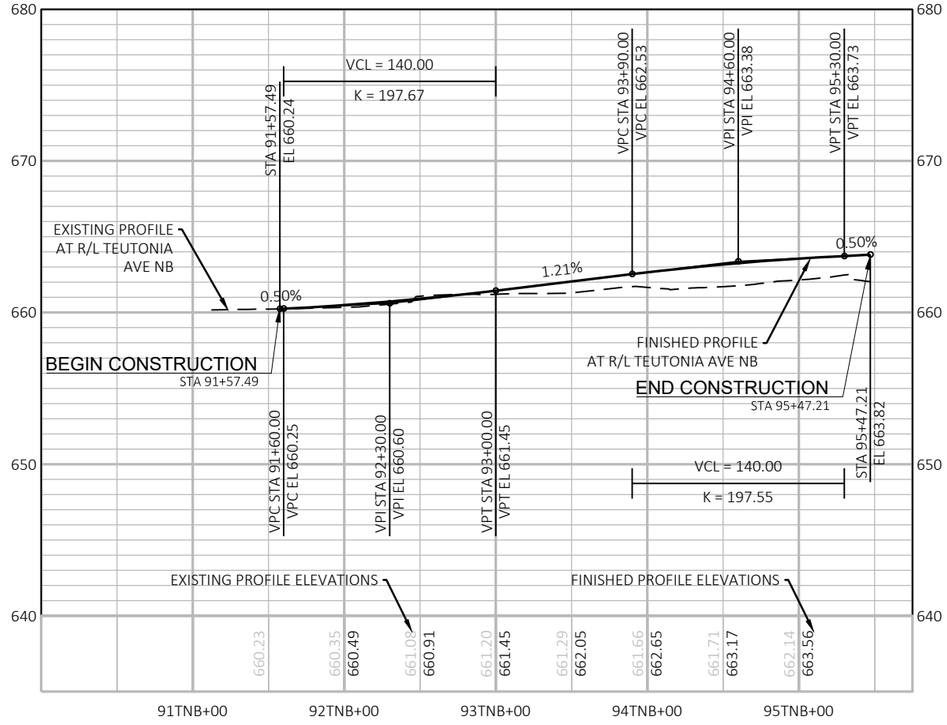


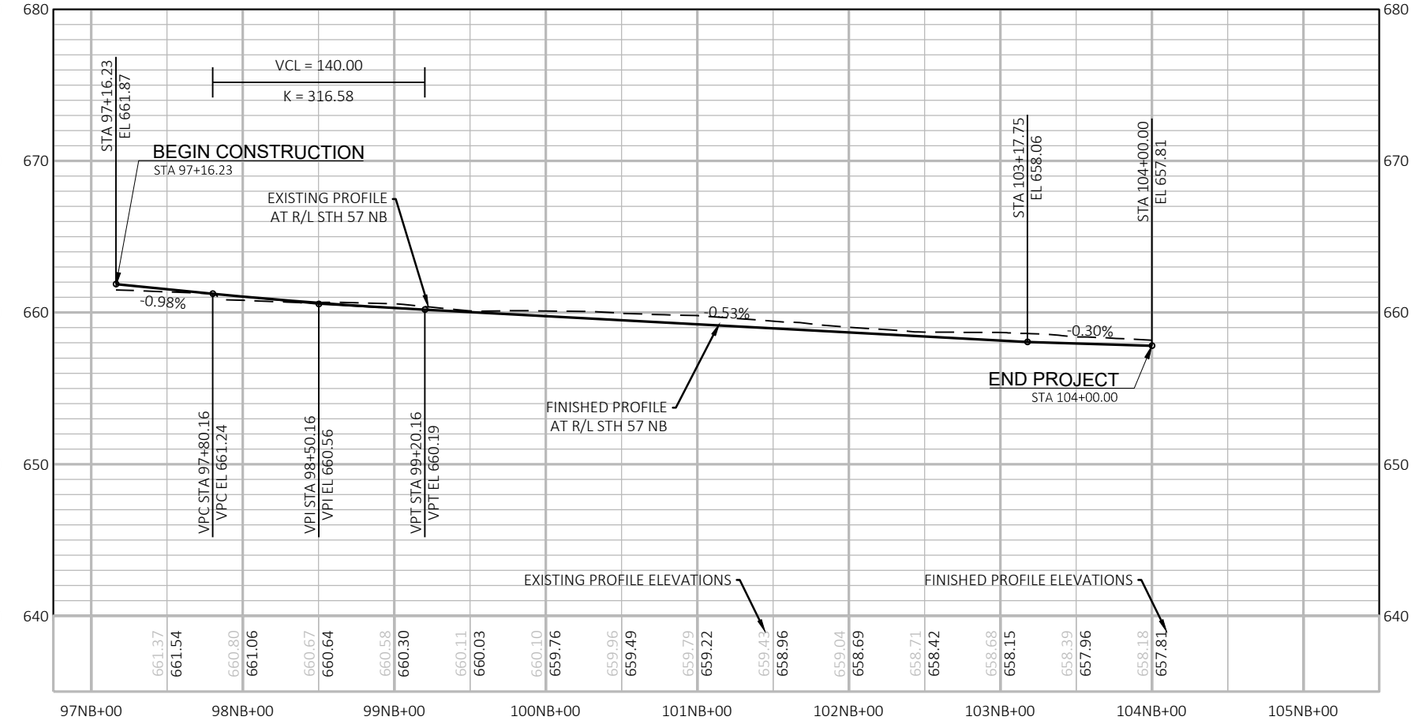
PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	PLAN AND PROFILE: STH 57	SHEET 84	E

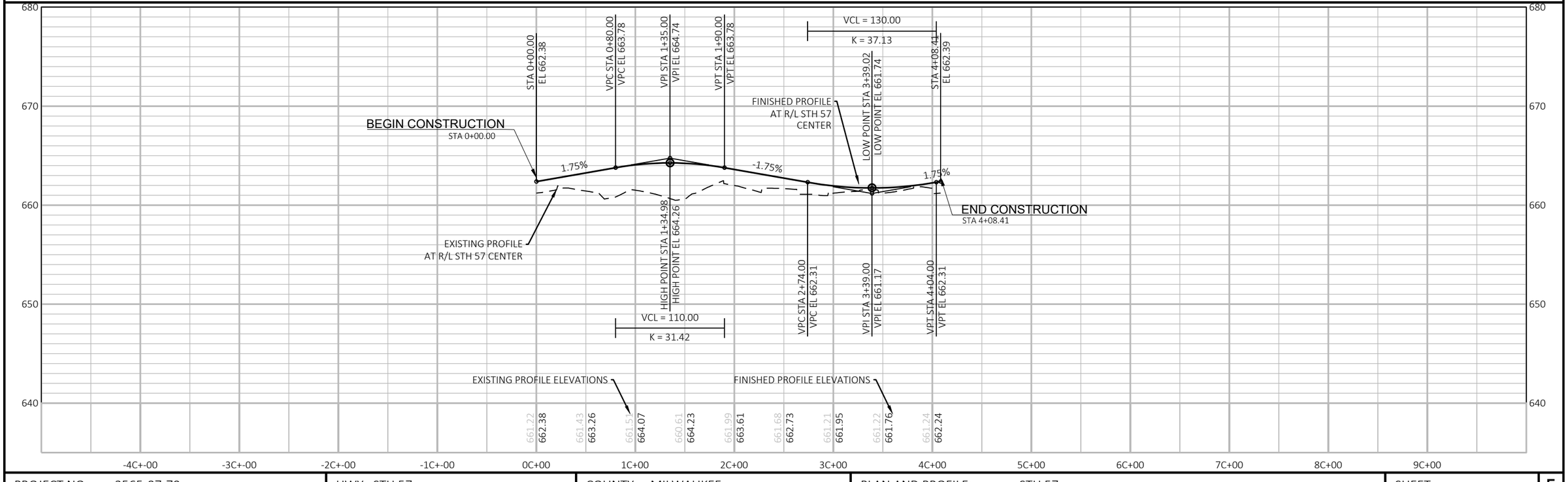
FILE NAME : L:\DESIGN PROJECTS\2565-07-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\050101_PP.DWG
LAYOUT NAME - 50101

PLOT DATE : 4/12/2021 12:08 PM PLOT BY : REBECCA JONARDI PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44



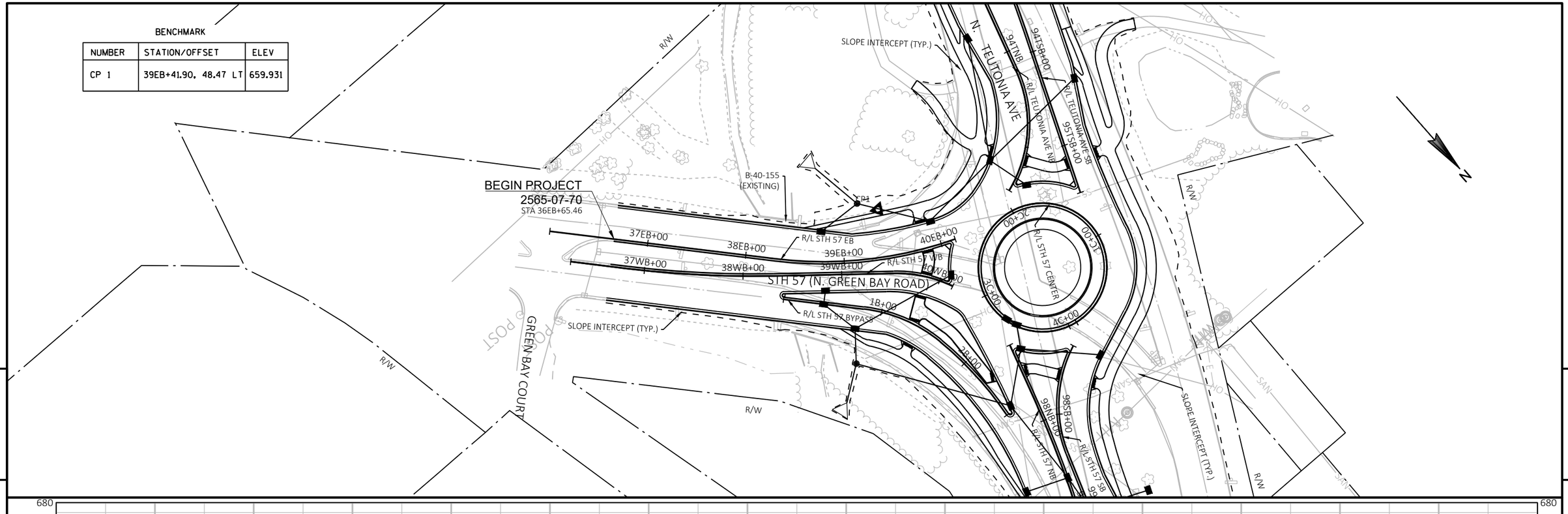


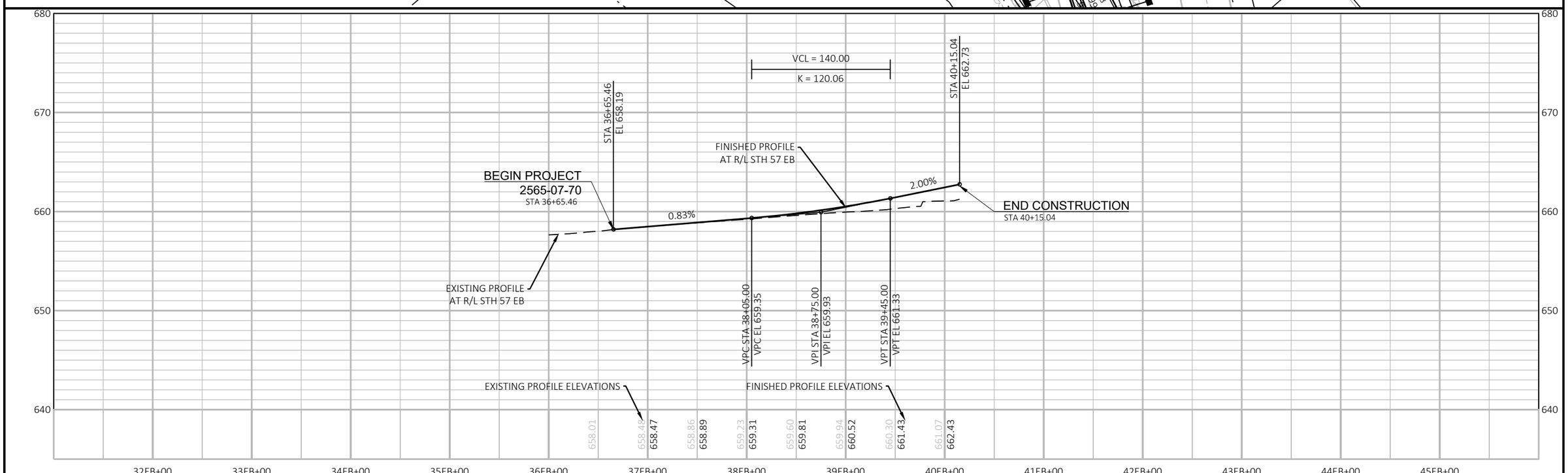


PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	PLAN AND PROFILE: STH 57	SHEET 85	E

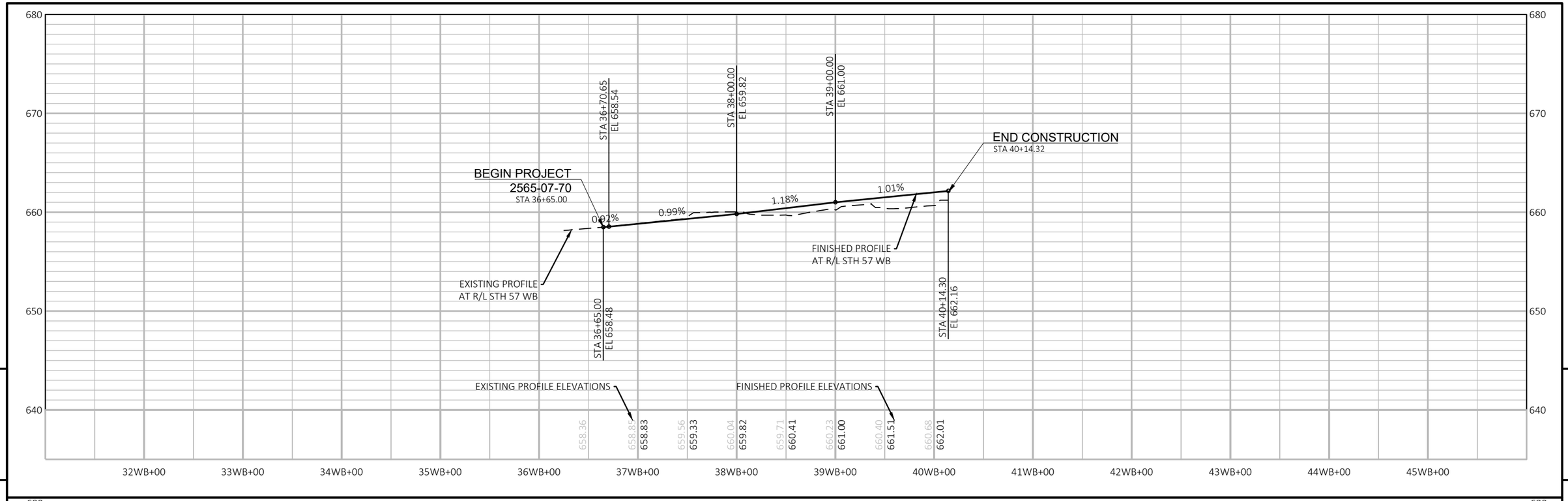
BENCHMARK

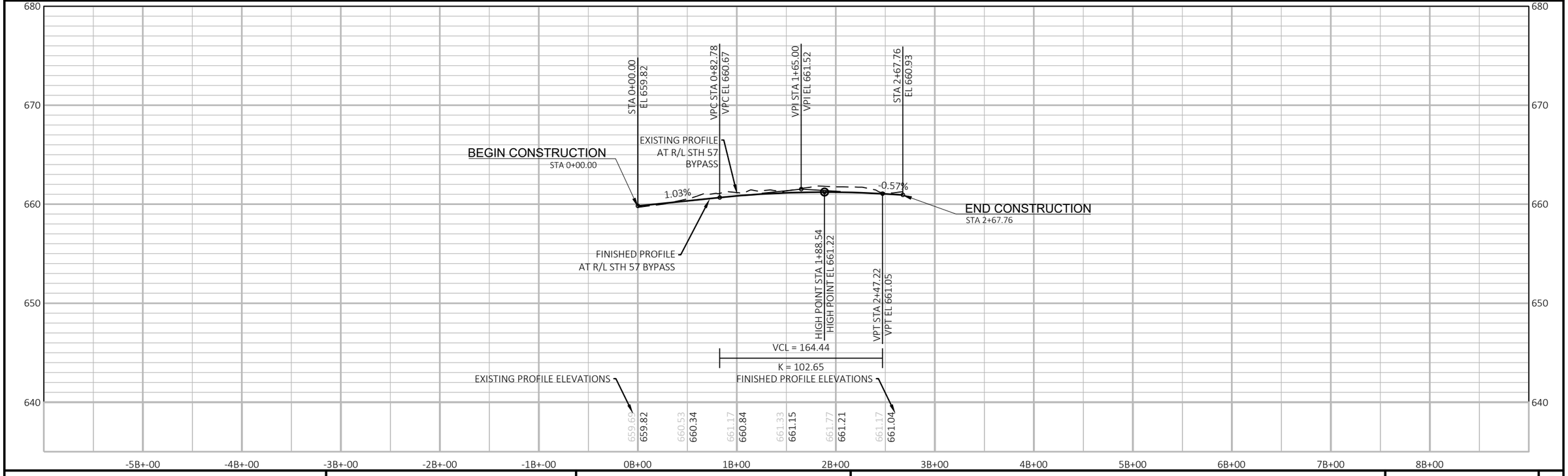
NUMBER	STATION/OFFSET	ELEV
CP 1	39EB+41.90, 48.47 LT	659.931





PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	PLAN AND PROFILE: STH 57	SHEET 86	E



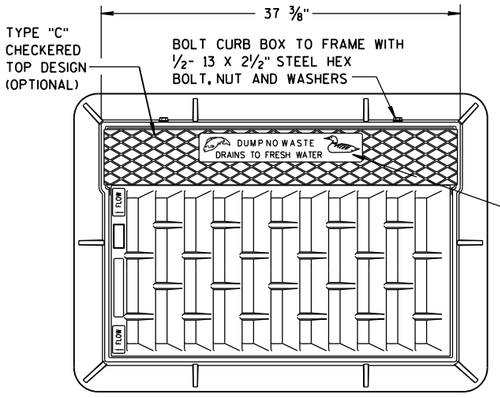


PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	PLAN AND PROFILE: STH 57	SHEET 87	E

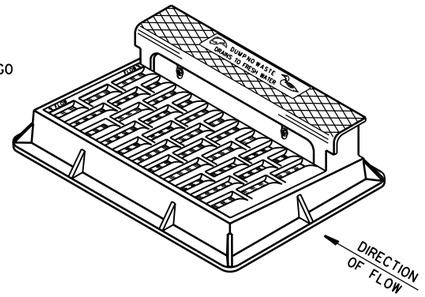
Standard Detail Drawing List

08A05-19A	INLET COVERS TYPE A, H, A-S, H-S & Z
08A05-19B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08A05-19C	INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S
08A05-19D	INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M
08A09-02	CATCH BASINS 2X3-FT AND 2.5X3-FT
08B09-02	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER
08C07-02	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT
08D01-22A	CONCRETE CURB & GUTTER
08D01-22B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D05-20B	CURB RAMPS TYPES 2 AND 3
08D05-20E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08D05-20G	CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES
08D16-11	CONCRETE GUTTER, CURB AND GUTTER AND PAVEMENT TIES
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E14-01	TRACKING PAD
08E15-01	CULVERT PIPE CHECK
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
09B02-10	CONDUIT
09B04-11	PULL BOX
09C02-09	CONCRETE BASES, TYPES 1, 2, 5, & 6
09C03-04	TRANSFORMER/PEDESTAL BASES
09C14-03	CONCRETE CONTROL CABINET BASE, TYPE L
09D05-02	L30 LIGHTING CONTROL CABINET 240/480 VOLT
09E01-15D	POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 5 (30 FEET)
09E01-15G	HARDWARE DETAILS FOR POLE MOUNTINGS
09E03-06	NON-FREEWAY LIGHTING UNIT POLE WIRING
10A01-03	ELECTRICAL HANDHOLE WIRING
10A02-03	IDENTIFICATION PLAQUES LIGHT POLES
10A05-03	ELECTRICAL DETAILS GROUND MOUNT LIGHT POLES ISOLATED NEUTRAL SYSTEMS
11B02-02	CONCRETE MEDIAN NOSE
12A04-03	STRUCTURE IDENTIFICATION PLAQUES, RAMP GATES, SIGN BRIDGES & OVERHEAD SIGN SUPPORTS & TRAFFIC SIGNALS
13C01-19	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C13-09	URBAN DOWELED CONCRETE PAVEMENT
13C18-07C	CONCRETE PAVEMENT JOINT TYPES
13C18-07D	CONCRETE PAVEMENT JOINT TYPES AT UTILITY FIXTURES
13C18-07E	CONCRETE PAVEMENT JOINTING AND STEEL REINFORCEMENT IN ROUNDABOUTS
13C18-07G	CONCRETE PAVEMENT JOINTING ACCELERATION/DECELERATION LANE
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-08C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C05-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C07-15A	PAVEMENT MARKING SYMBOLS
15C07-15B	PAVEMENT MARKING WORDS
15C07-15C	PAVEMENT MARKING ARROWS
15C07-15D	ROUNDABOUT ARROWS
15C08-20A	LONGITUDINAL MARKING (MAINLINE)
15C08-20C	PAVEMENT MARKING (TURN LANES)
15C11-08B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C18-05B	PAVEMENT MARKINGS, MEDIAN ISLAND NOSE
15C18-05C	PAVEMENT MARKINGS, DOUBLE ARROW WARNING SIGN PLACEMENT
15C29-07A	BICYCLE LANE MARKING
15C33-04	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D20-05A	TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
15D30-06A	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-06B	TRAFFIC CONTROL, TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMMODATION
15D30-06C	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D37-03	TRAFFIC CONTROL, 2-LANE ROUNDABOUT
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS

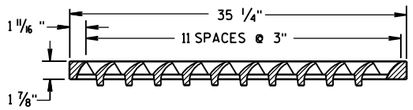
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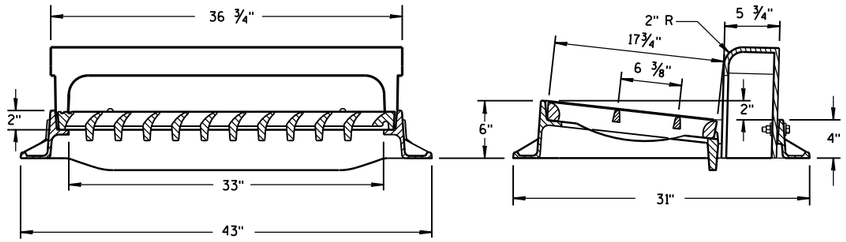


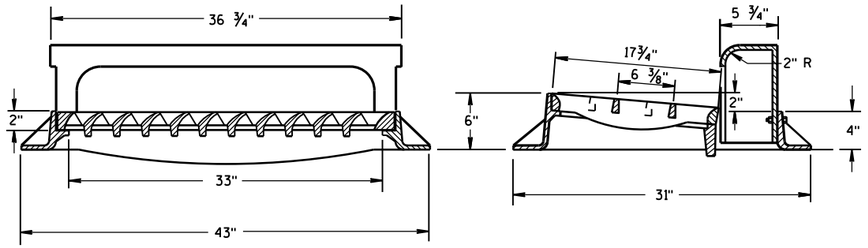
NOTE:
GRATE IS REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

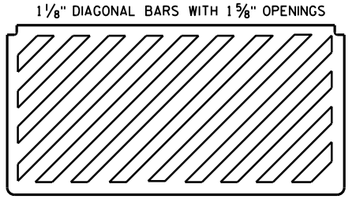






TYPE "H"

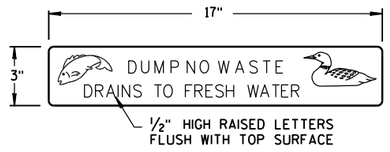
NOTE: EITHER CASTING IS ACCEPTABLE



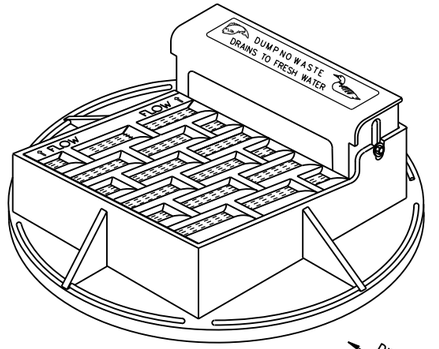
SPECIAL GRATE FOR TYPE "H" COVER

(MEASURES 35 1/4" X 17 3/4" X 2")

(NOTED AS TYPE H-S ON DRAINAGE TABLE)



LOGO DETAIL



NOTE: CURB BOX ADJUSTABLE 4" TO 9"

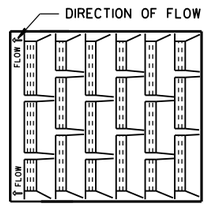
NOTE:
GRATE IS REVERSIBLE.

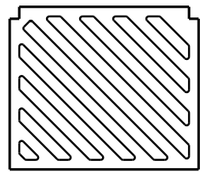
GENERAL NOTES

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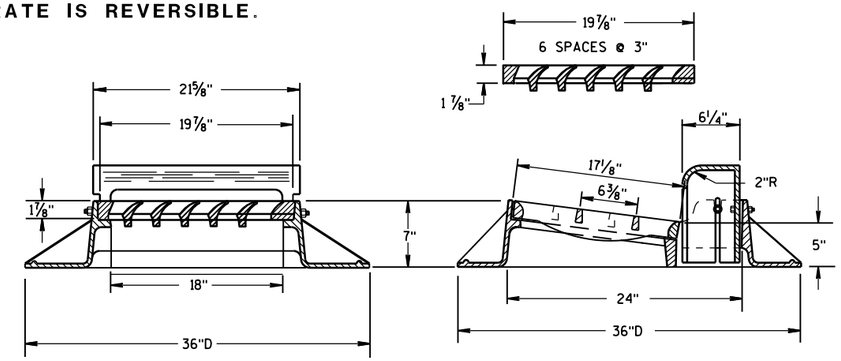




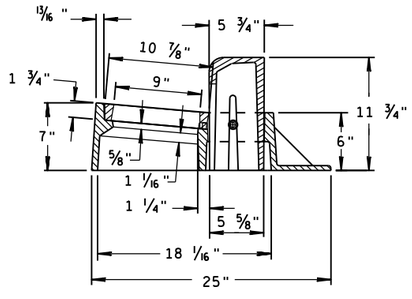
SPECIAL GRATE FOR TYPE "A" COVER

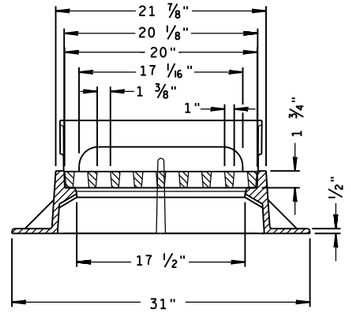
(MEASURES 19 3/4" X 17" X 1 7/8")

(NOTED AS TYPE A-S ON DRAINAGE TABLE)

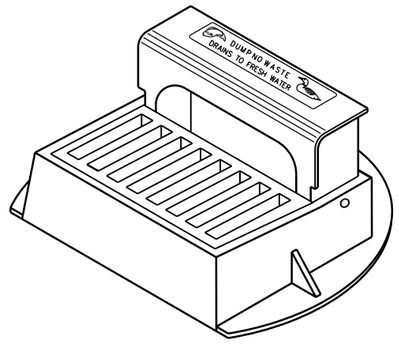


TYPE "A"





TYPE "Z"

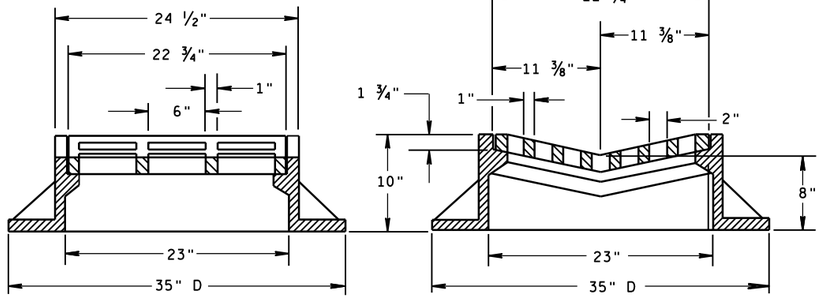


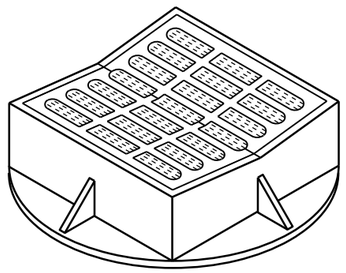
INLET COVERS
TYPE A, H, A-S, H-S & Z

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

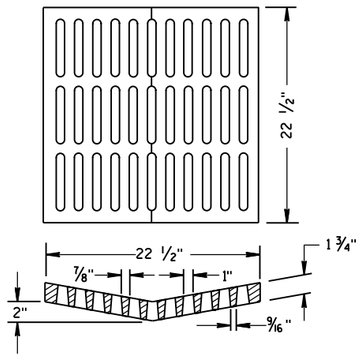
APPROVED
11-27-13 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

S.D.D. 8 A 5-19a



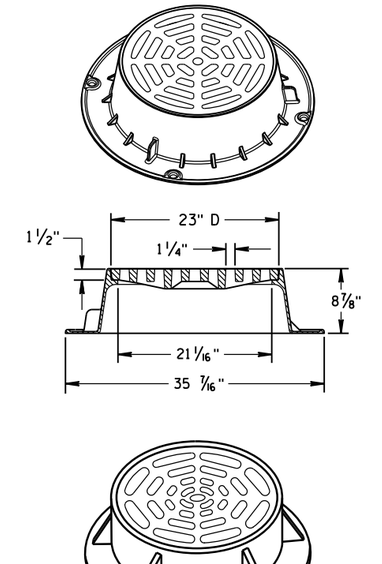


TYPE "B"



ALTERNATIVE GRATE FOR TYPE "B" COVER

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS POSSIBLE.
NOTED AS TYPE B-A ON THE DRAINAGE TABLE



TYPE "C"

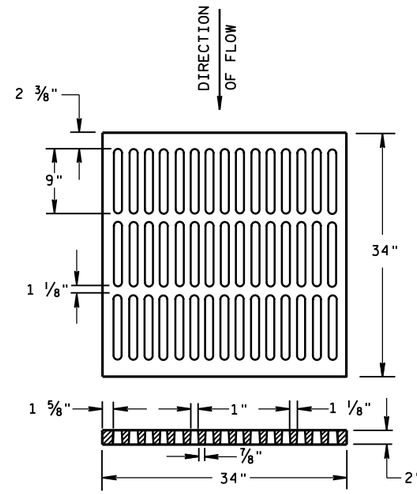
NOTE: EITHER CASTING IS ACCEPTABLE

GENERAL NOTES

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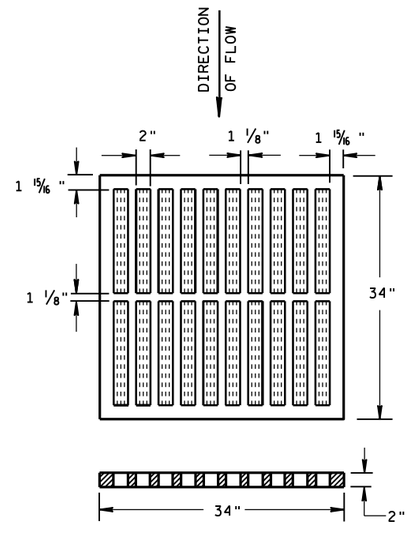
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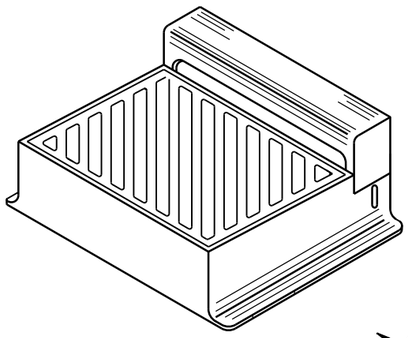
ALTERNATIVE TYPE "MS"

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS PERMITTED
NOTED AS TYPE MS-A ON THE DRAINAGE TABLE

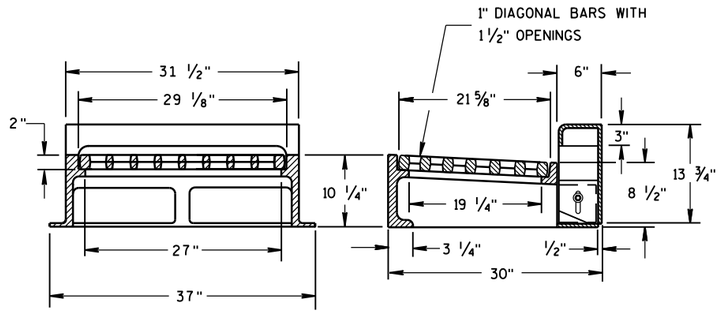


TYPE "MS"

USE ON FREEWAYS AND EXPRESSWAYS
NOTED AS TYPE MS ON DRAINAGE TABLE



DIAGONAL SLOTS, SHALL BE ORIENTED TO THE DIRECTION OF FLOW AS ILLUSTRATED. GRATES ARE MANUFACTURED TO BE REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

TYPE "WM"

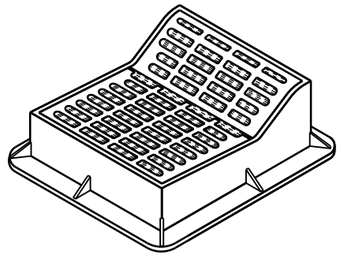
INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM

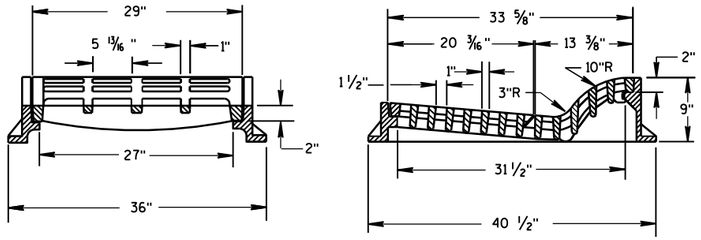
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

6

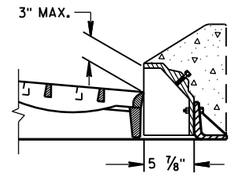
S.D.D. 8 A 5-19b





TYPE "F"

USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.



ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

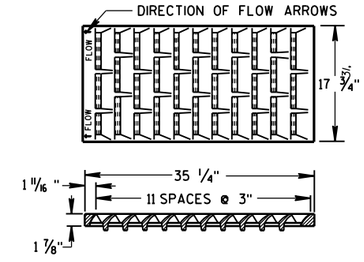
USE WITH TYPES G & J CONCRETE CURB & GUTTER, 30 INCH
NOTED AS TYPE HM-GJ ON DRAINAGE TABLE

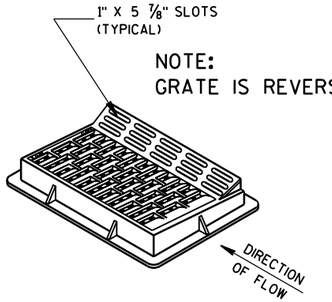
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM-GJ" COVER
NOTED AS TYPE HM-GJ-S ON DRAINAGE TABLE

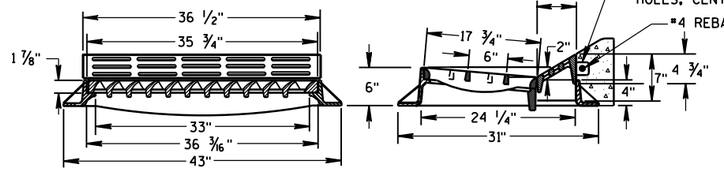
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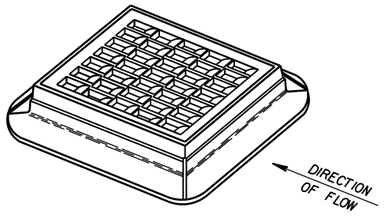


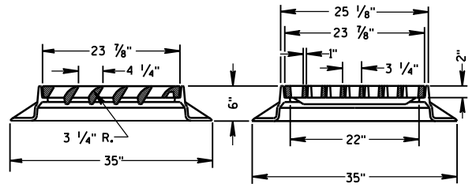


TYPE "HM"

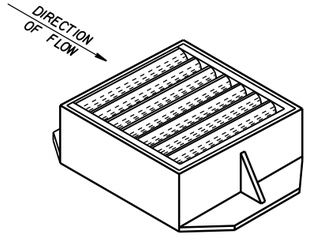
USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.

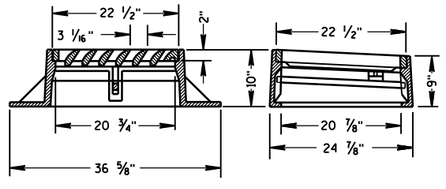
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM" COVER
NOTED AS TYPE HM-S ON DRAINAGE TABLE



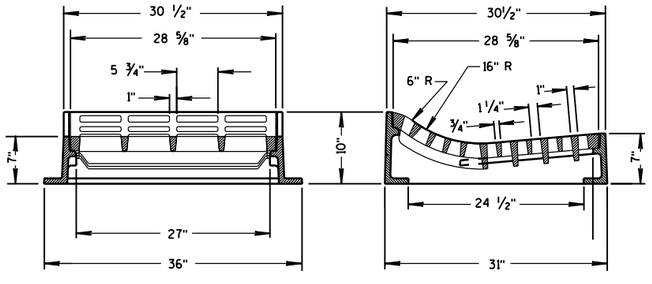


TYPE "S"



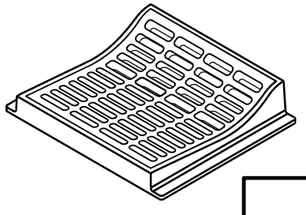


TYPE "V"



TYPE "T"

USE WITH TYPES R & T CONCRETE CURB & GUTTER, 36 INCH.



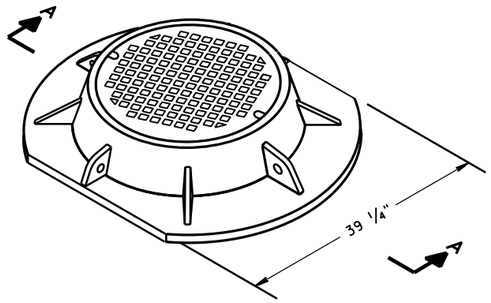
INLET COVERS
TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S

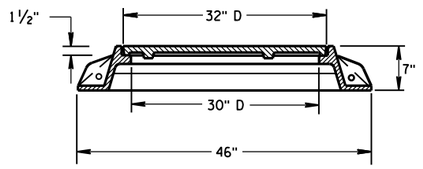
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

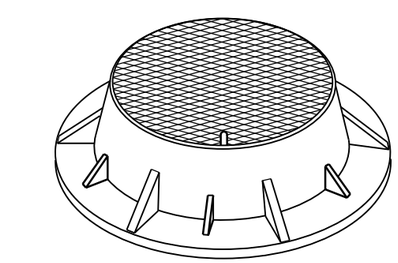
6

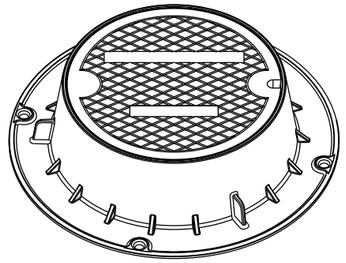
S.D.D. 8 A 5-19c

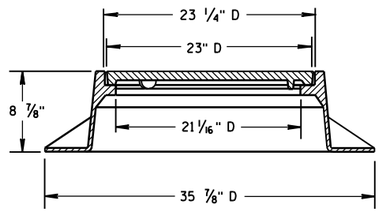


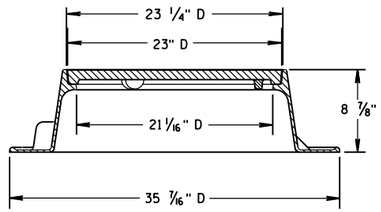


SECTION A-A
TYPE "K"









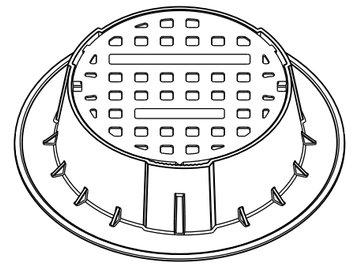
TYPE "J"
NOTE: EITHER CASTING IS ACCEPTABLE

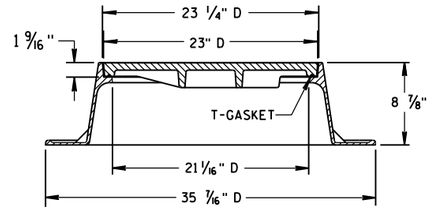
GENERAL NOTES

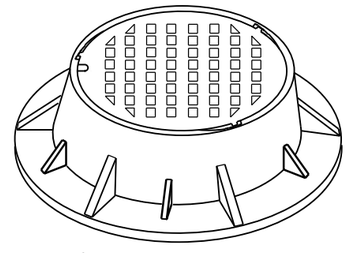
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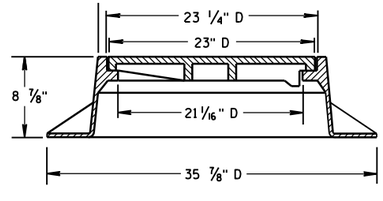
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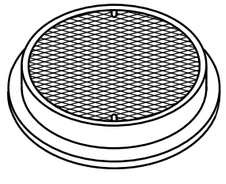


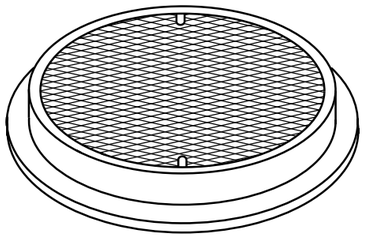


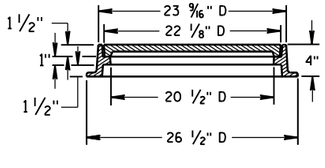




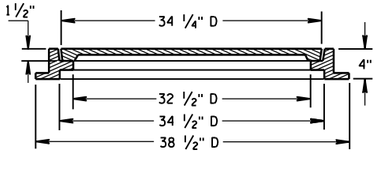
TYPE "J" SPECIAL
TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)
NOTE: EITHER CASTING IS ACCEPTABLE



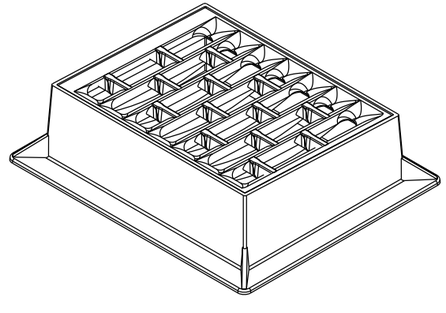


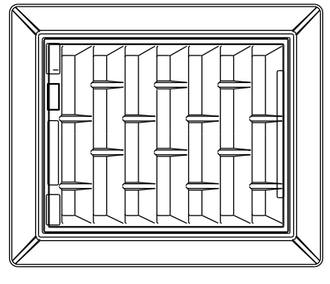


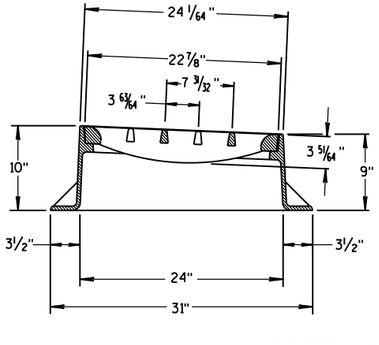
TYPE "L"

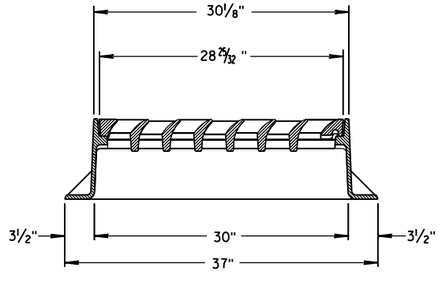


TYPE "M"







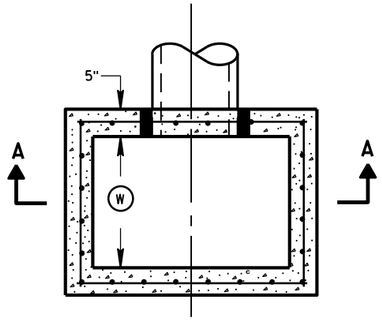


INLET COVER TYPE "BW"

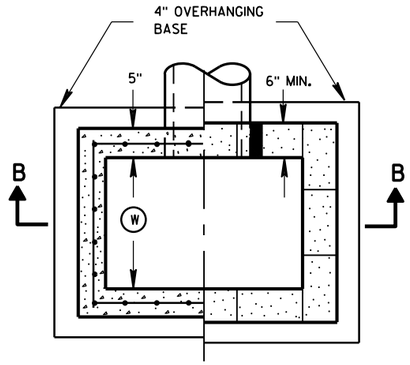
INLET COVER TYPE BW
MANHOLE COVERS, TYPE K, J, J-S, L & M

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

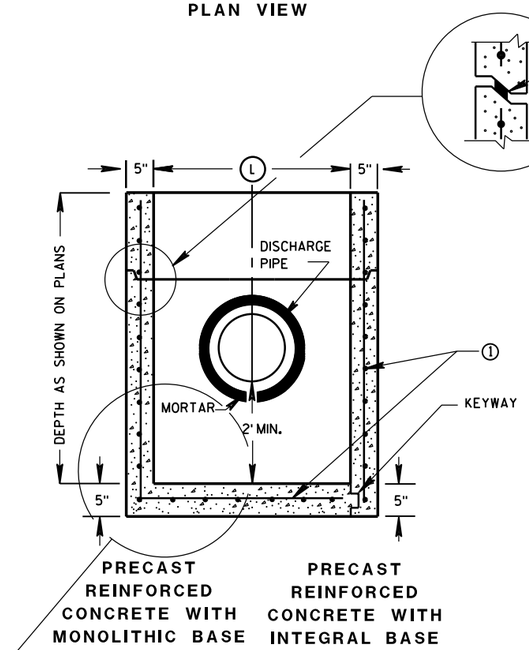
APPROVED
11/27/2013
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA



PLAN VIEW



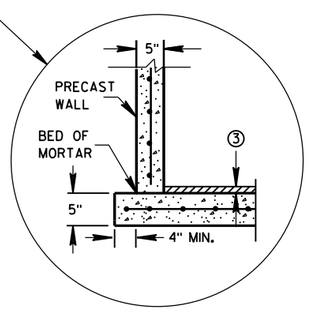
PLAN VIEW



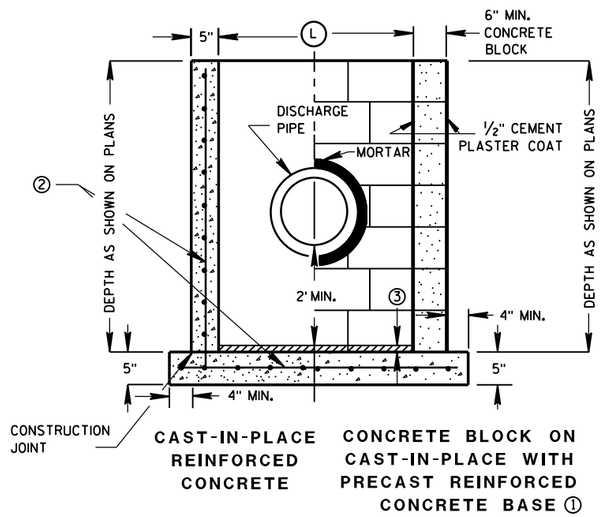
PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE

SECTION A-A



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION



CAST-IN-PLACE REINFORCED CONCRETE

CONCRETE BLOCK ON CAST-IN-PLACE WITH PRECAST REINFORCED CONCRETE BASE ①

SECTION B-B

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST CATCH BASIN UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL PRECAST CATCH BASIN UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATES THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND CONCRETE BLOCK INSTALLATIONS.
4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED.
OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST CATCH BASINS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

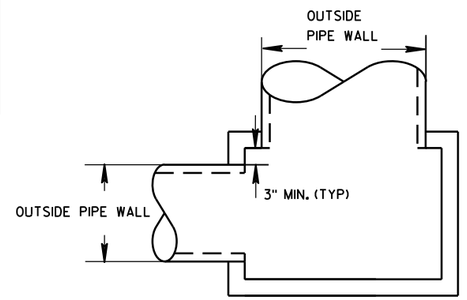
③ 1" CONCRETE KEY POURED AFTER INSTALLATION. 2' SUMP MEASURED FROM TOP OF KEY.

CATCH BASIN COVER MATRIX

CATCH BASIN SIZE		INLET COVER TYPE	F	ALL H'S
	WIDTH (W) (FT)	LENGTH (L) (FT)		
2X3-FT	2	3		X
2.5X3-FT	2.5	3	X	

PIPE MATRIX

CATCH BASIN SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	WIDTH (IN)	LENGTH (IN)
2X3-FT	12	24
2.5X3-FT	18	24



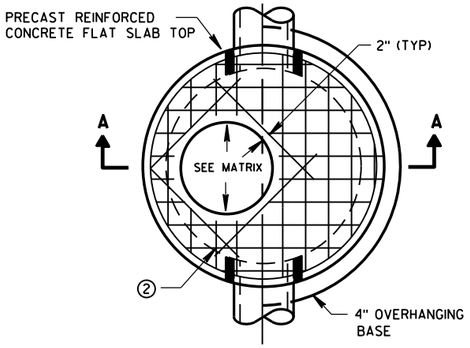
DETAIL "A"

CATCH BASINS 2X3-FT AND 2.5X3-FT

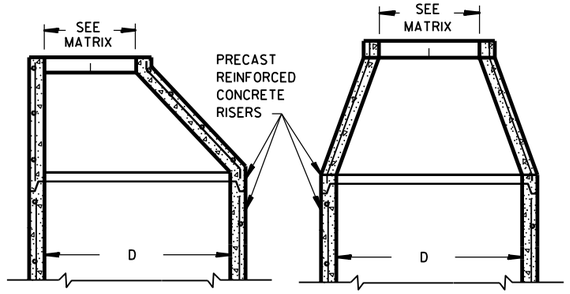
CATCH BASINS 2X3-FT AND 2.5X3-FT

STATE OF WISCONSIN
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ROADWAY STANDARDS UNIT SUPERVISOR
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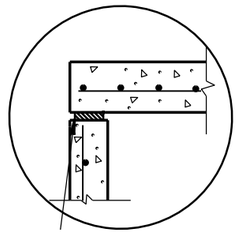


PLAN VIEW CIRCULAR OPENING

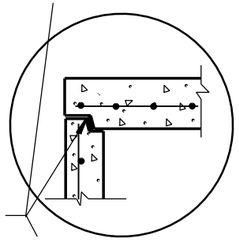


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

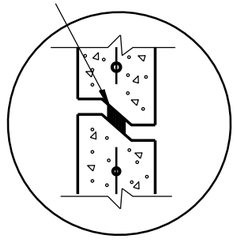


TOP WITH PLAIN END JOINT



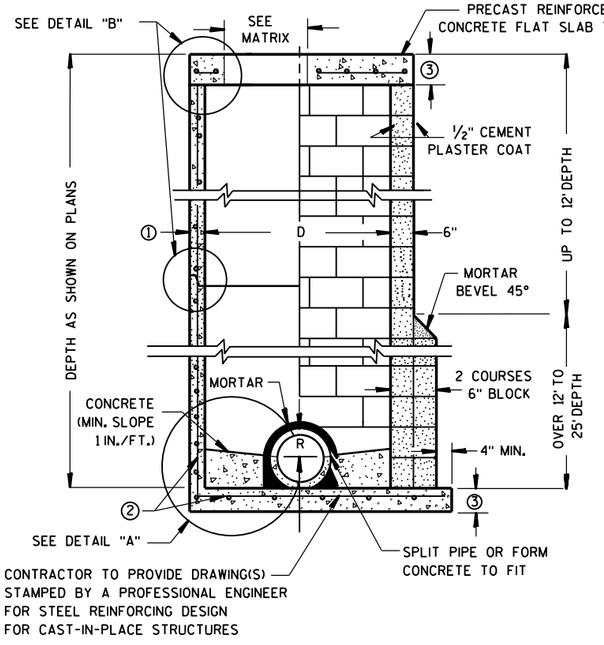
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT



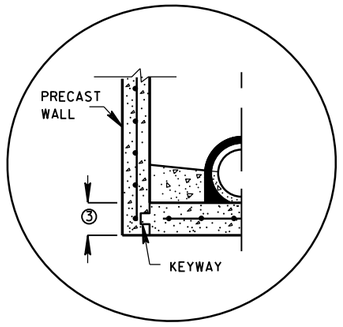
RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

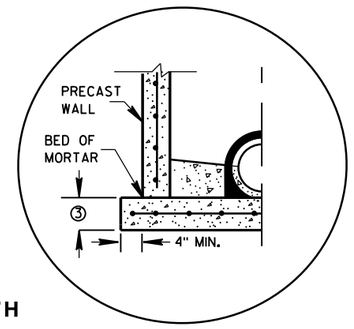


PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

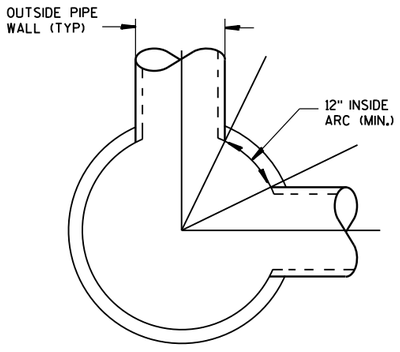


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "C"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST MANHOLE UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½" AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT, 7 INCHES FOR 6-FT, 8 INCHES FOR 7-FT AND 9 INCHES FOR 8-FT DIAMETER PRECAST MANHOLES.

② FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

③ PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS OF 8".

MANHOLE COVER OPENING MATRIX

MANHOLE COVER TYPE	C	ALL J'S	K	L	M
OPENING SIZE (FT)					
2 DIA.	X	X		X	
3 DIA.			X		X

PIPE MATRIX

MANHOLE SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	36
7-FT	48	36
8-FT	60	42

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

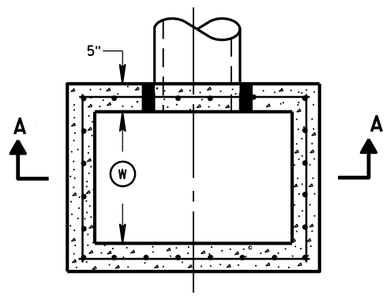
Sept., 2016
DATE

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ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERV

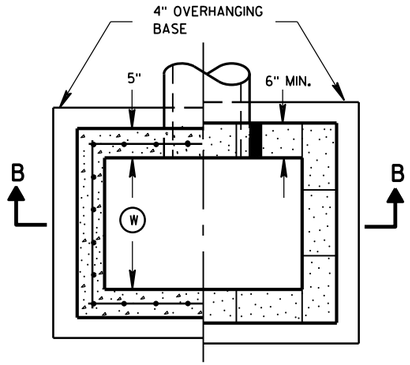
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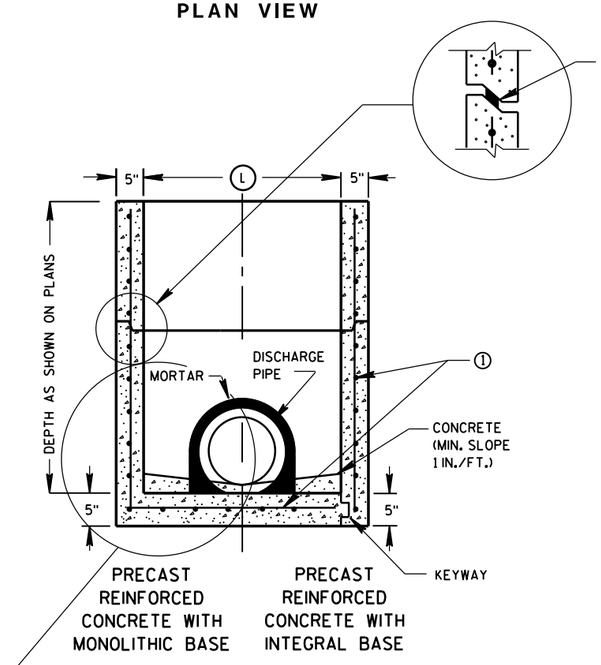
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S.D.D. 8 B 9-2



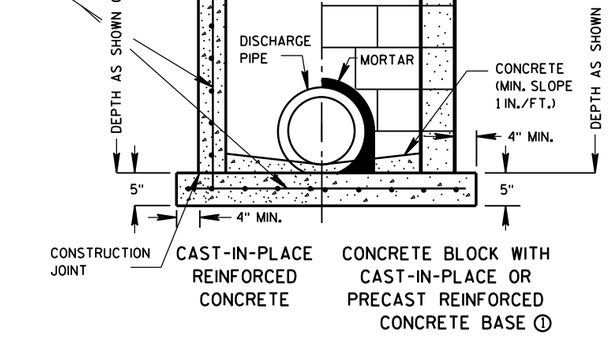
PLAN VIEW



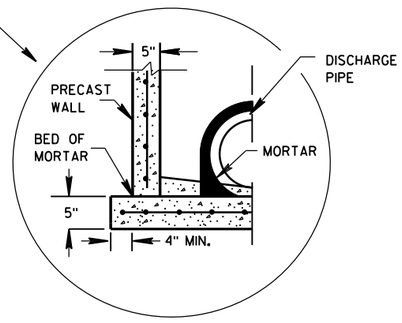
PLAN VIEW



SECTION A-A



SECTION B-B



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND CONCRETE BLOCK INSTALLATIONS.
4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED.
OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3 INCH CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

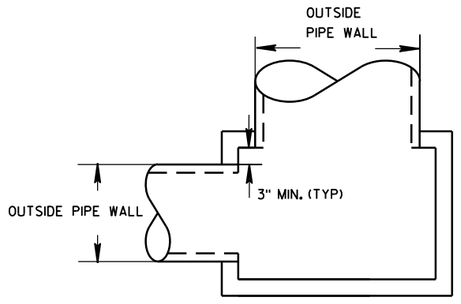
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

INLET COVER MATRIX

INLET SIZE		INLET COVER TYPE	ALL A'S	ALL B'S	BW	F	ALL H'S	S	T	V	WM
	WIDTH (W) (FT)	LENGTH (L) (FT)									
2X2-FT	2	2	X	X				X		X	
2X2.5-FT	2	2.5			X			X	X	X	X
2X3-FT	2	3					X				
2.5X3-FT	2.5	3				X					

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER	
	WIDTH (IN)	LENGTH (IN)
2X2-FT	12	12
2X2.5-FT	12	18
2X3-FT	12	24
2.5X3-FT	18	24



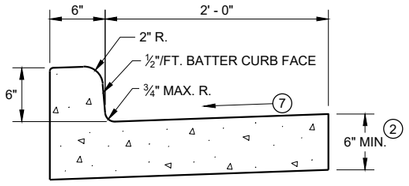
DETAIL "A"

INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

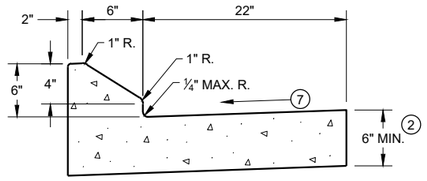
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016 — DATE
/S/ Rodney Taylor
ROADWAY STANDARDS D IT UNIT SUPERVIS
FHWA

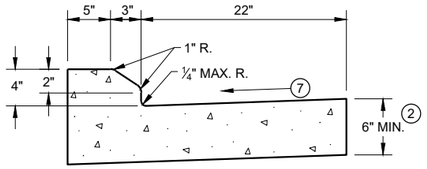
INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT



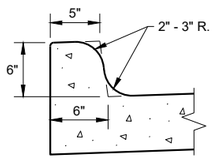
TYPES A[1] & D



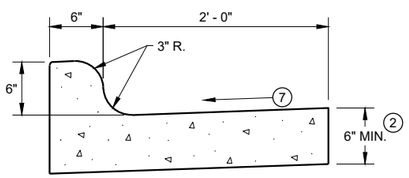
6" SLOPED CURB TYPES G[1] & J



4" SLOPED CURB TYPES G[1] & J

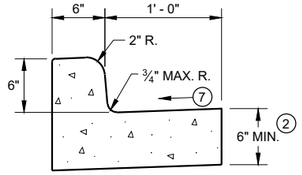


TYPES K[1] & L
(OPTIONAL CURB SHAPE)



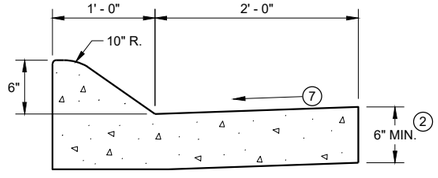
TYPES K[1] & L

CONCRETE CURB AND GUTTER 30"



TYPES A[1] & D

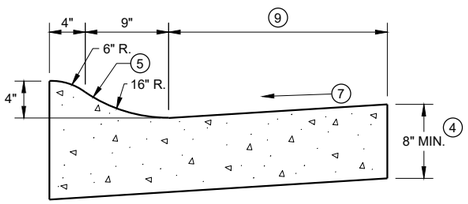
CONCRETE CURB AND GUTTER 18"



6" SLOPED CURB TYPES A[1] & D

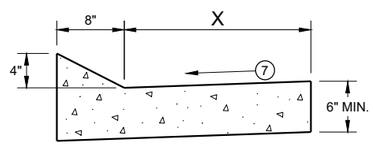
4" SLOPED CURB TYPES A[1] & D

CONCRETE CURB AND GUTTER 36"



4" SLOPED CURB TYPES R[1] & T

TBT & TBTT	X
30"	22"
36"	28"

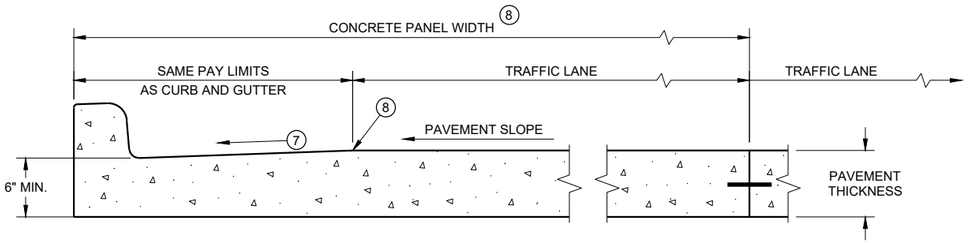


TYPES TBT & TBTT[1]

CONCRETE CURB AND GUTTER

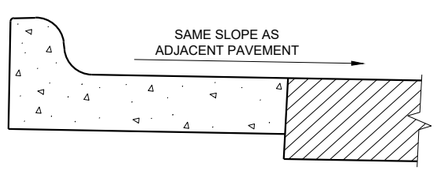
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

PAVEMENT THICKNESS	MAXIMUM PANEL WIDTH
LESS THAN 10"	12'
10" & ABOVE	15'



PARTIAL SECTION OF PAVEMENT * WITH INTEGRAL CURB AND GUTTER

* BIKE LANE IS NOT SHOWN



REVERSE SLOPE GUTTER[6]
(TYPICAL FOR ALL CURB & GUTTER TYPES)

GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB AND GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB AND GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2' - 0" BEHIND THE BACK OF CURBS.

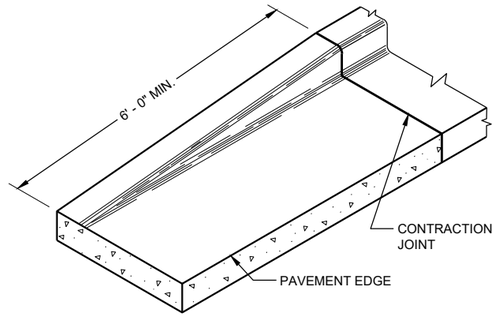
1. TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.
2. THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.
3. USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.
4. THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.
5. UNLESS OTHERWISE NOTED, FOR STAKING PURPOSES THE FACE OF CURB IS 6" FROM THE BACK OF CURB.
6. WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.
7. USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.
8. INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINT(S) ARE NOT ALLOWED WITHIN TRAFFIC LANES AND BIKE LANES. LONGITUDINAL JOINT MAY BE SAWED.
9. CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE "R" AND "T" = 17 INCHES
   CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE "R" AND "T" = 23 INCHES

CONCRETE CURB AND GUTTER

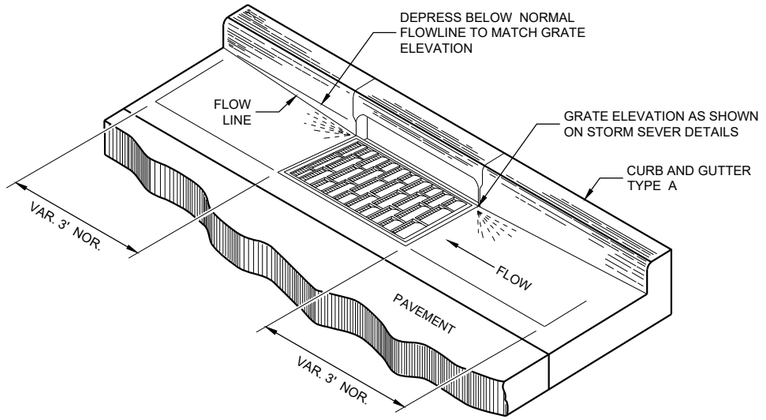
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 08D01 - 22a
SDD 08D01 - 22a



END SECTIONCURB AND GUTTER



DETAIL OF CURB AND GUTTER AT INLETS

(TYPICAL H INLET COVER SHOWN)

GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

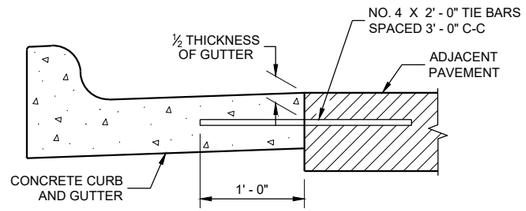
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2' - 0" BEHIND THE BACK OF CURBS.

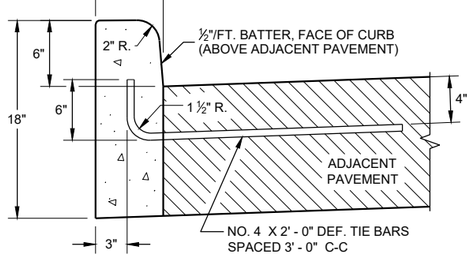
(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.

(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

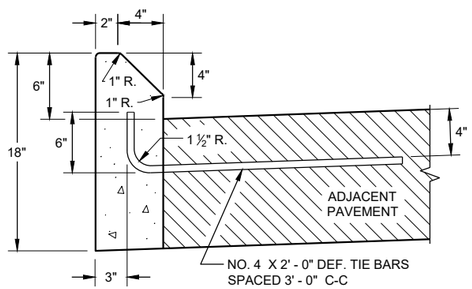
(9) REFER TO SDD 08D18 AND 08D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.



TYPICAL TIE BAR LOCATION (1)

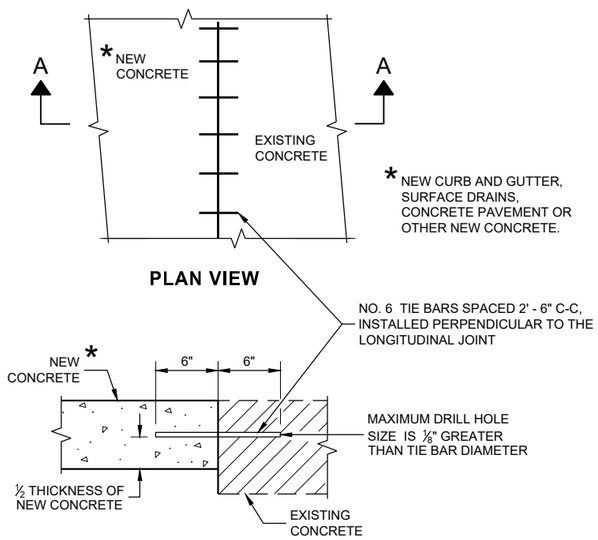


TYPES A (1) & D

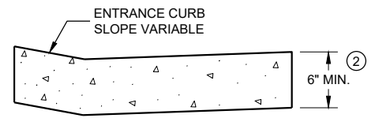


TYPES G (1) & J

CONCRETE CURB



TIE BARS DRILLED INTO EXISTING PAVEMENT



DRIVEWAY ENTRANCE CURB (9)

(WHEN DIRECTED BY THE ENGINEER)

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

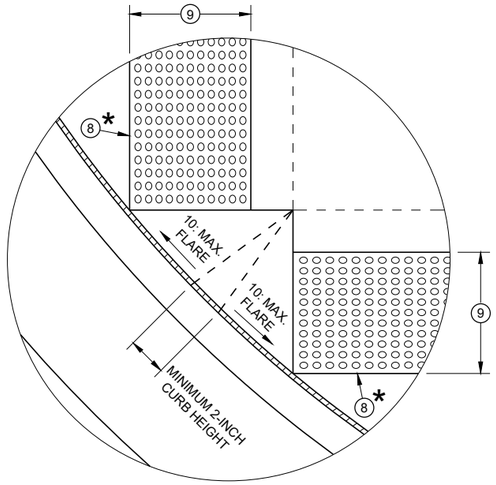
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2021 — DATE
/S/ Rodnery Taylor — ROADWAY STANDARDS DEVE ENGINEER

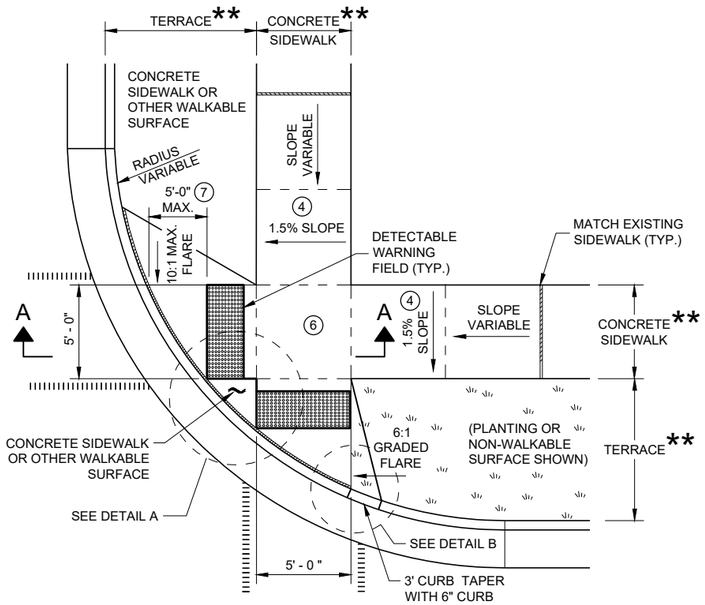
FHWA

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SDD08D01 - 22b



DETAIL A



PLAN VIEW
CURB RAMP TYPE 2
(CENTER OF CORNER RADIUS)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE (2.67% OR LESS) AND NOT TO EXCEED 11% GRADE CHANGE.

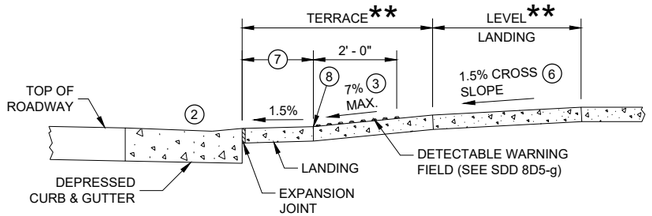
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET X 5 FEET.

(7) WHEN GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

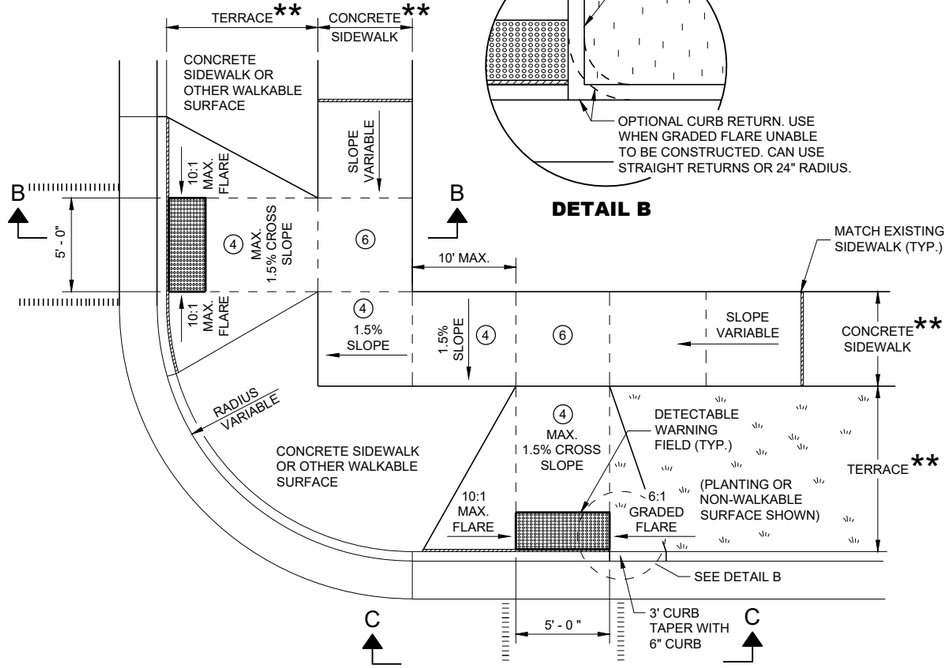
(9) WHEN DISTANCE IS LESS THAN 6' - 0", IT MAY BE DIFFICULT TO ACHIEVE A 7% SLOPE OR FLATTER ALONG THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 7% SLOPE OR FLATTER ON RAMP. CONSTRUCT 2-INCH MINIMUM CURB HEIGHT BETWEEN 10:1 FLARES.



SECTION A - A FOR TYPE 2

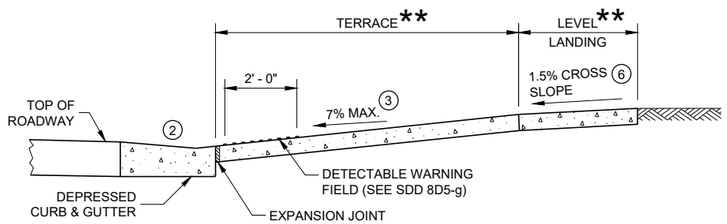
* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

** WIDTH SHOWN ELSEWHERE IN THE PLANS

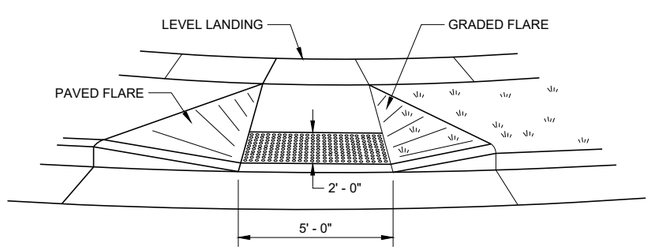


DETAIL B

PLAN VIEW
CURB RAMP TYPE 3
(OUTSIDE OF CROSSWALK AREA)



SECTION B - B FOR TYPE 3



VIEW C - C FOR TYPE 3

LEGEND

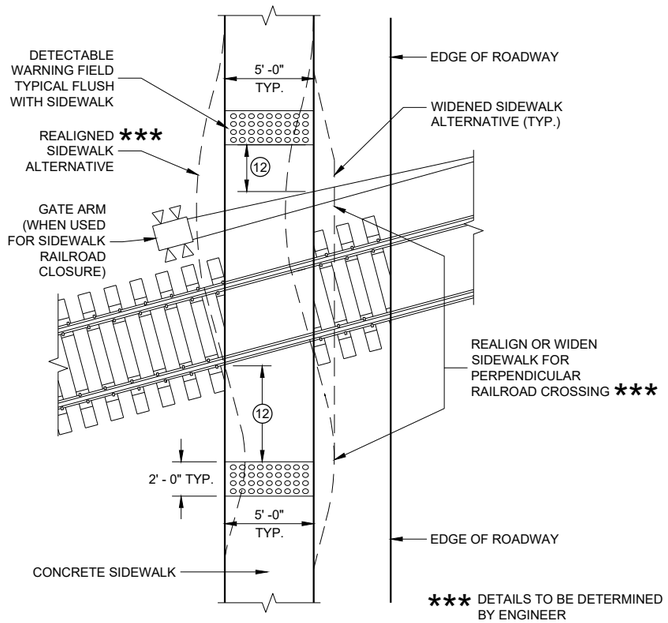
- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS TYPE 2 AND 3

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

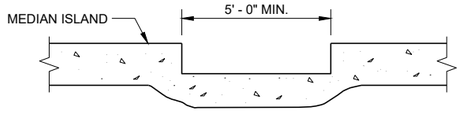
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SDD 08D05 - 20b

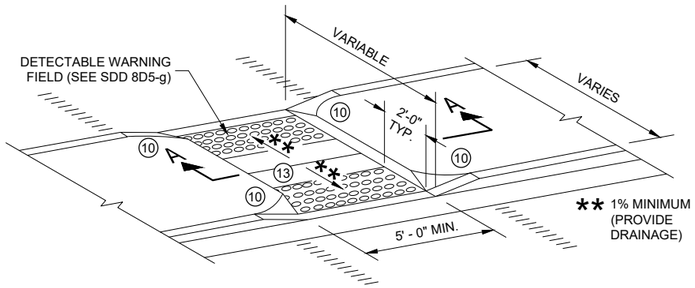


CURB RAMP TYPE 8

DETECTABLE WARNINGS AT RAILROAD CROSSING



SECTION A - A FOR TYPE 5



CURB RAMP TYPE 5

MEDIAN ISLAND NON-ELEVATED PEDESTRIAN CROSSING

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ½ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

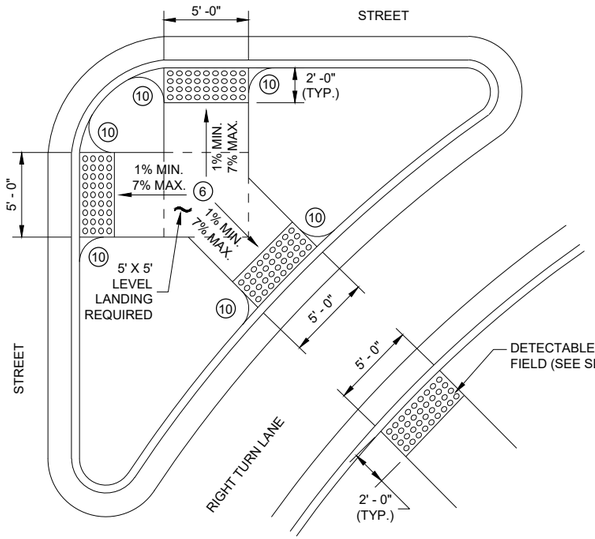
(11) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

(12) THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING SHALL BE 1.5 FEET ±0.1' FROM THE FACE OF THE GATE ARM IF THE GATE ARM EXTENDS ACROSS THE SIDEWALK. WHERE THERE IS NO PEDESTRIAN GATE, THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO THE RAILROAD CROSSING SHALL BE 15 FEET FROM THE NEAREST RAIL.

(13) DO NOT INSTALL DETECTABLE WARNING FIELDS AT THE EDGES OF STEET-LEVEL PEDESTRIAN REFUGE ISLANDS IF A MINIMUM 2 FOOT CONCRETE SURFACE WITHOUT DETECTABLE WARNINGS (MEASURED IN THE DIRECTION OF PEDESTRIAN TRAVEL) CANNOT BE ACHIEVED.

LEGEND

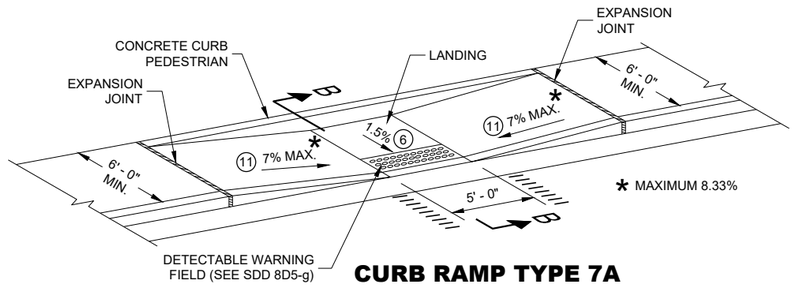
- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)



CURB RAMP TYPE 6

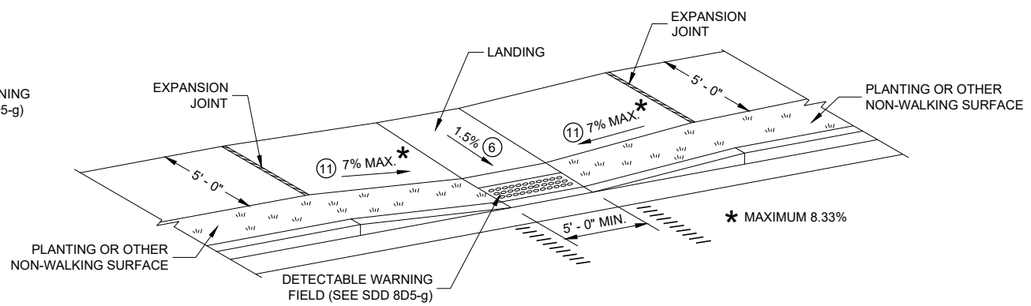
DETECTABLE WARNING AT ISLANDS

REFER TO GENERAL NOTES (2) AND (3) FOR ALL ISLAND CURB RAMPS



CURB RAMP TYPE 7A

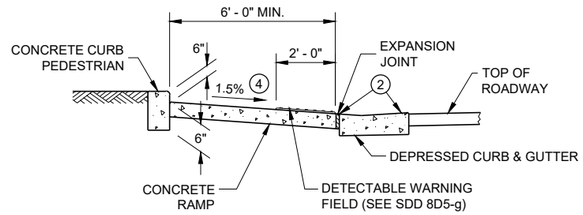
MID BLOCK CROSSING



CURB RAMP TYPE 7B

MID BLOCK CROSSING

NOTE: THESE PARALLEL AND PARALLEL/PERPENDICULAR CURB RAMPS MAY BE USED AT INTERSECTIONS AND MID BLOCK LOCATIONS.



SECTION B - B FOR TYPE 7A

CURB RAMPS TYPE 5, 6, 7A, 7B & 8

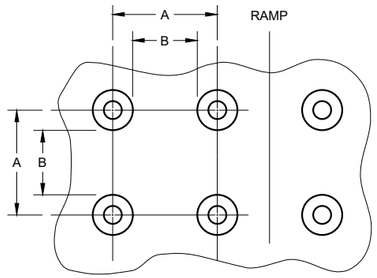
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

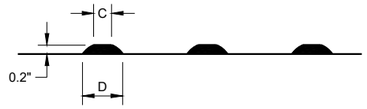
SDD 08D05 - 20e

	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.

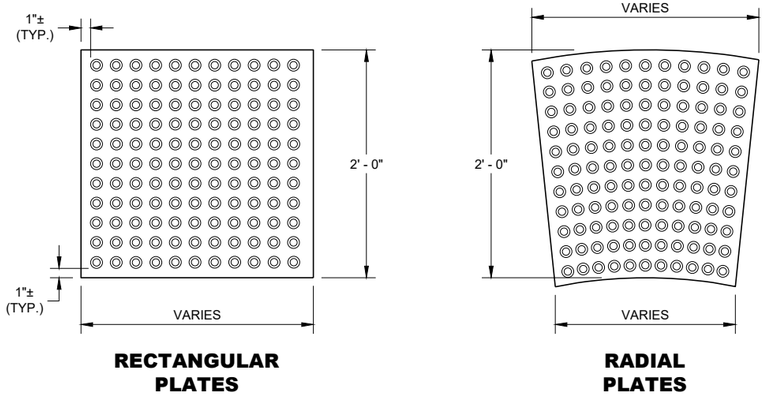


PLAN VIEW



ELEVATION VIEW

TRUNCATED DOMES
DETECTABLE WARNING PATTERN DETAIL



RECTANGULAR PLATES

RADIAL PLATES

PLAN VIEW
DETECTABLE WARNING FIELDS (TYPICAL)

GENERAL NOTES

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AT A CURB RAMP SHALL BE FROM THE SAME MANUFACTURER.

PLACE ALL DETECTABLE WARNING FIELD SYSTEMS IN ACCORDANCE TO THE MANUFACTURER'S RECOMMENDATION.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FILED ARE PROHIBITED.

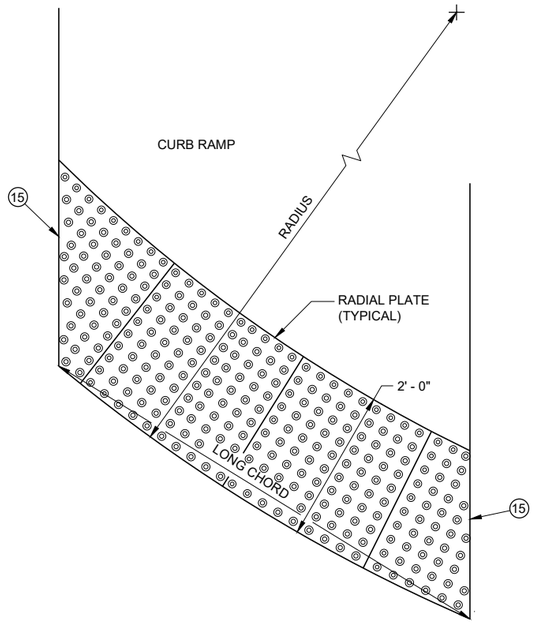
DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

FOR RADIAL DETECTABLE WARNING FIELD APPLICATIONS WHERE STANDARD RADIAL PLATES ARE NOT AVAILABLE AT AN INTERSECTION CURB RADIUS, A COMBINATION OF SQUARE OR RECTANGULAR PLATES AND RADIAL PLATES MAY BE USED TO FORM RADIAL CONFIGURATION. RADIAL WEDGE PLATES IN COMBINATION WITH SQUARE PLATES ARE ALSO ACCEPTABLE. FOLLOW MANUFACTURER'S RECOMMENDATIONS.

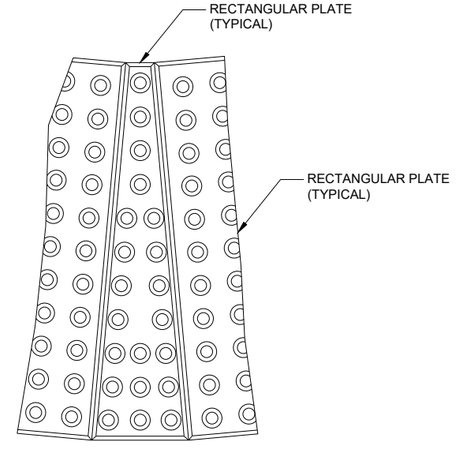
REFER TO CONTRACT AND STANDARD SPECIFICATIONS FOR FIELD CUTTING REQUIREMENTS.

DO NOT EMBED IN CONCRETE ANY FIELD-CUT PLATES WITH CUT EDGES SHORTER THAN 6 INCHES. CONSULT WITH MANUFACTURER FOR RE-DRILLING AND ANCHORING REQUIREMENTS OF FIELD-CUT PLATES.

(15) FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN ⅛" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.



PLAN VIEW
RADIAL DETECTABLE WARNING FIELD ATTRIBUTES



PLAN VIEW
RADIAL WEDGE PLATE CONNECTION DETAIL

CURB RAMPS
RECTANGULAR AND RADIAL
DETECTABLE WARNING PLATES

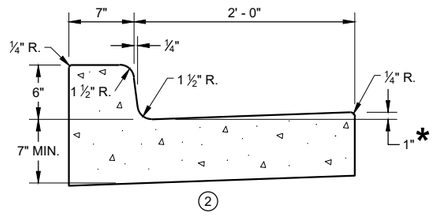
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE UNIT SUPERVISOR

FHWA

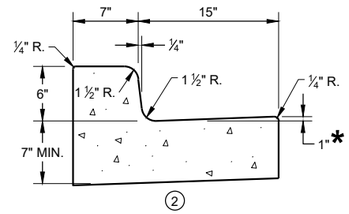
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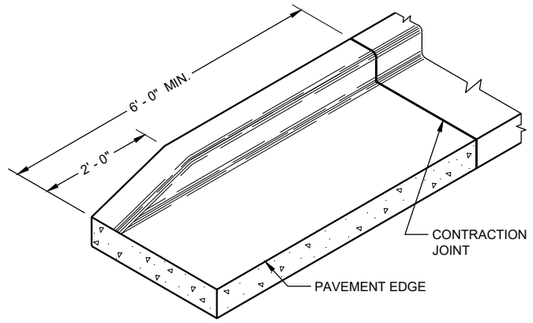


CONCRETE CURB AND GUTTER 31" ①

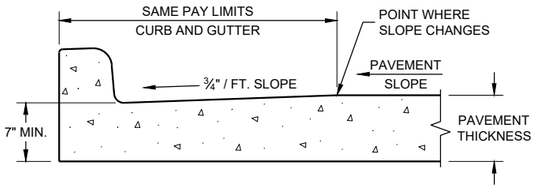
*TO BE MEASURED TO A MAXIMUM OF 3" WHERE DRAINAGE PROBLEMS EXIST.



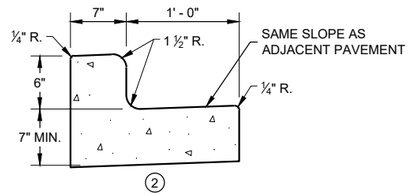
CONCRETE CURB AND GUTTER 22" ①



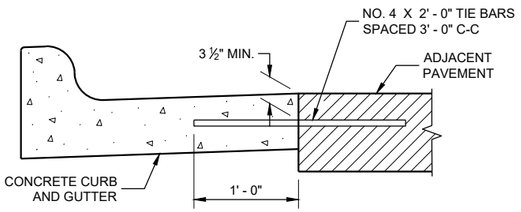
END SECTIONCURB AND GUTTER



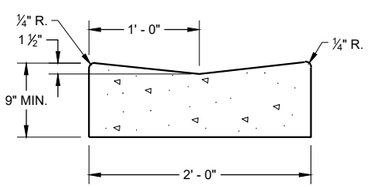
PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB AND GUTTER



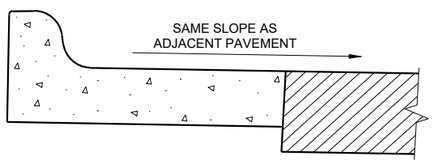
CONCRETE CURB AND GUTTER 19" ①



TYPICAL TIE BAR LOCATION ①



CONCRETE GUTTER 24" ①



HIGH SIDE SECTION ③

(TYPICAL FOR ALL CURB & GUTTER TYPES)

GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

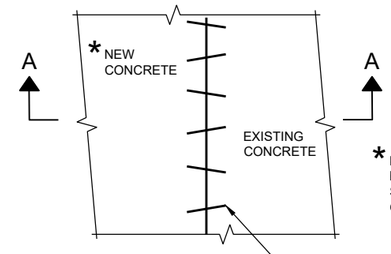
INTEGRAL CURB AND GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB AND GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE. A LONGITUDINAL CONSTRUCTION JOINT IS NOT REQUIRED WITH INTEGRAL CURB AND GUTTER.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE COURSE AND UNCLASSIFIED EXCAVATION LIMITS ARE 2' - 0" BEHIND THE BACK OF CURBS.

① WHEN PLACED ADJACENT TO NEW CONCRETE, TIE BARS ARE REQUITED FOR CURB AND GUTTER 31", 22", 19" AND CONCRETE GUTTER 24".

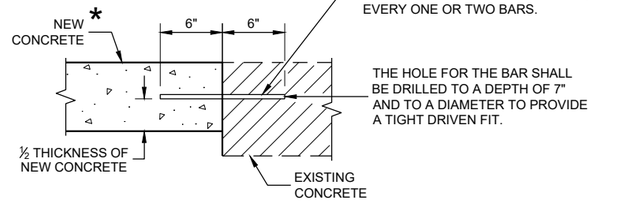
② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE COURSE PROVIDED A 7" MINIMUM GUTTER THICKNESS IS MAINTAINED.

③ WHEN HIGH SIDE CURB SECTION IS REQUIRED, THE LOCATION(S) WILL BE NOTED ON THE PLANS



PLAN VIEW

* EXISTING AND NEW CONCRETE MAY BE CURB AND GUTTER, SURFACE DRAINS, PAVEMENT OR OTHER CONCRETE STRUCTURE.



SECTION A - A

PAVEMENT TIES

CONCRETE GUTTER, CURB AND GUTTER AND PAVEMENT TIES

(For Optional use in Milwaukee Co. Only)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

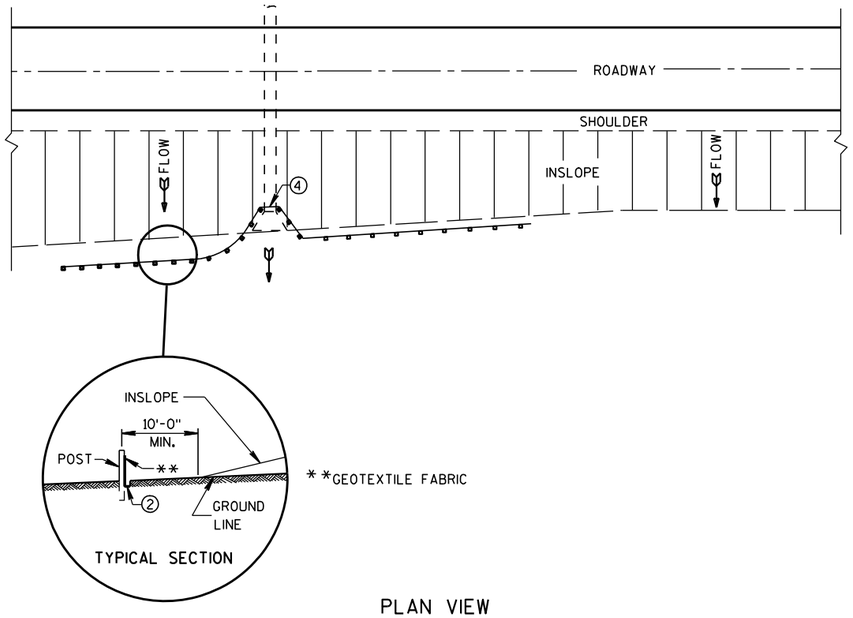
APPROVED
February 2020 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE ENGINEER
FHWA

6

SDD 08D16 - 11

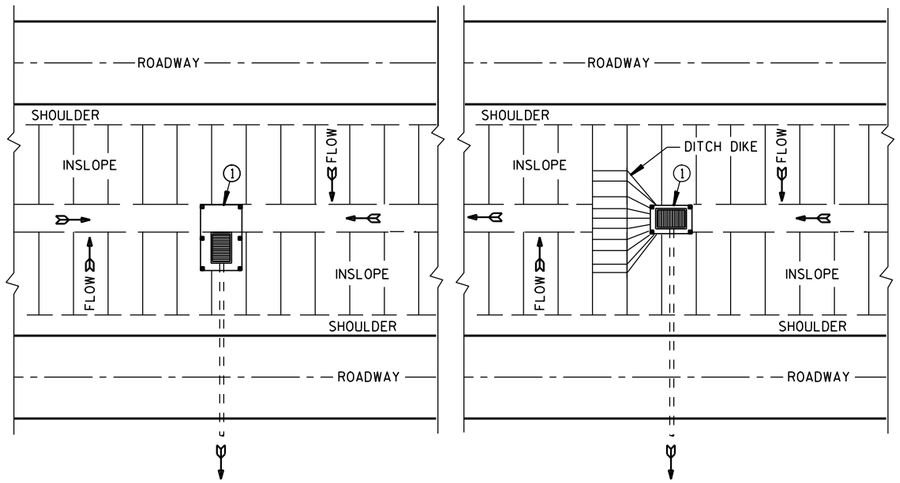
6

SDD 08D16 - 11



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



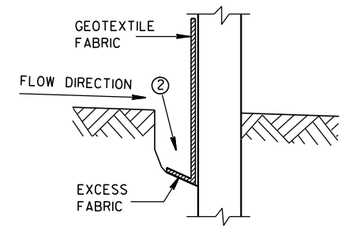
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

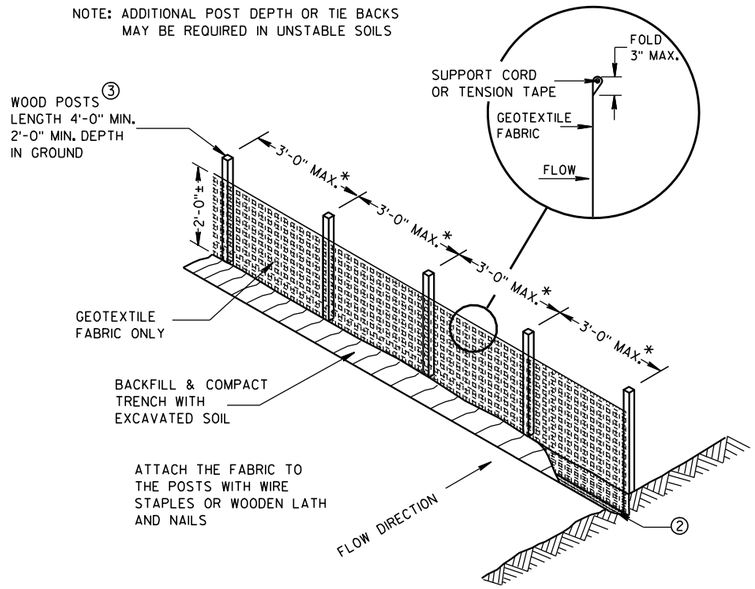
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.
4. SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
5. CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.

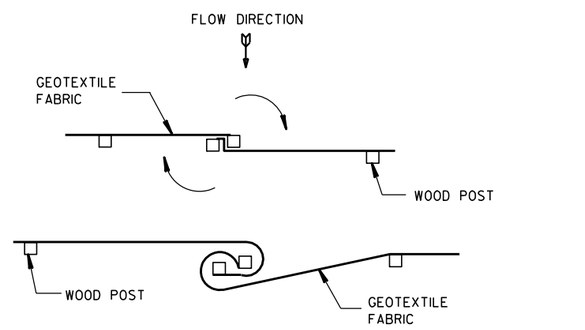


TRENCH DETAIL

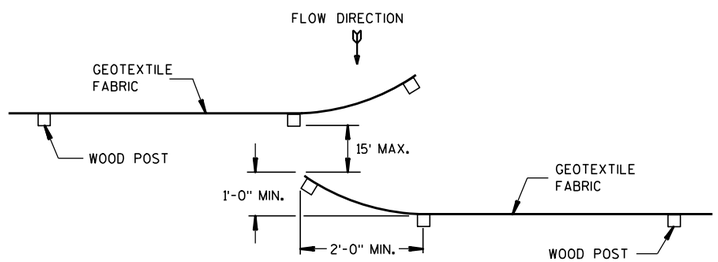


*NOTE: 8'-0" POST SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED.

SILT FENCE

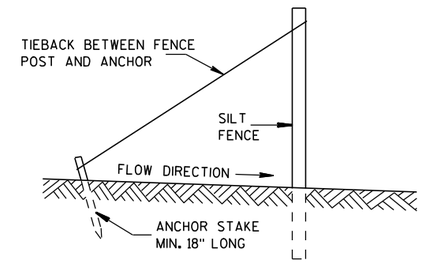


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE 5



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

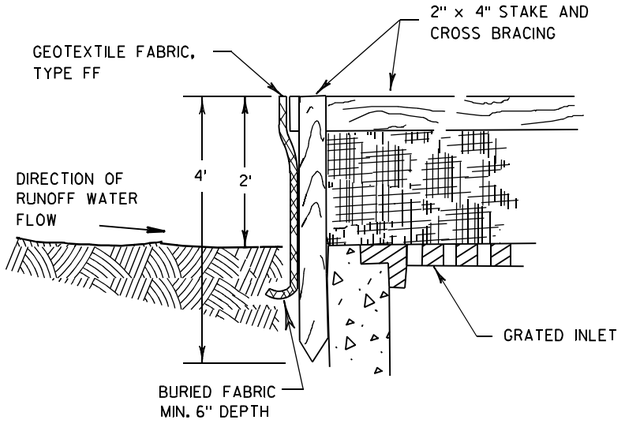
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

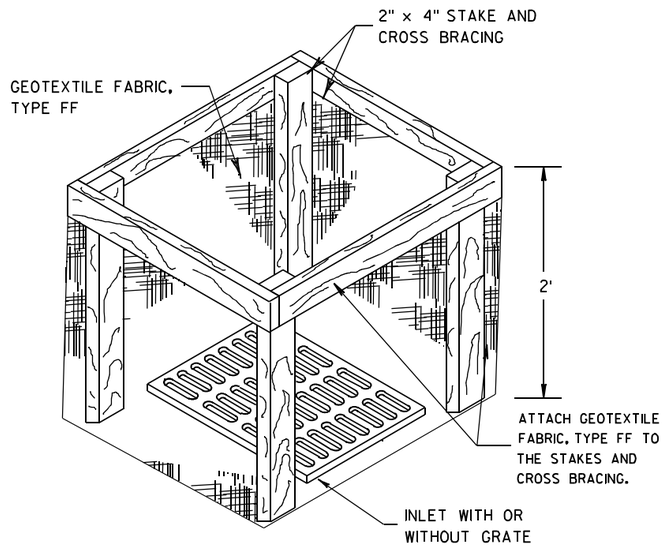
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S.D.D. 8 E 9-6

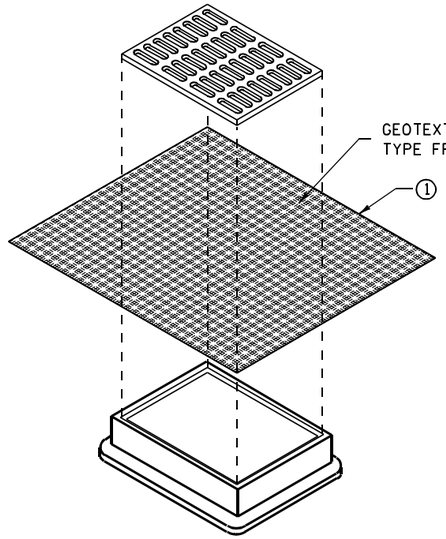
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S.D.D. 8 E 9-6



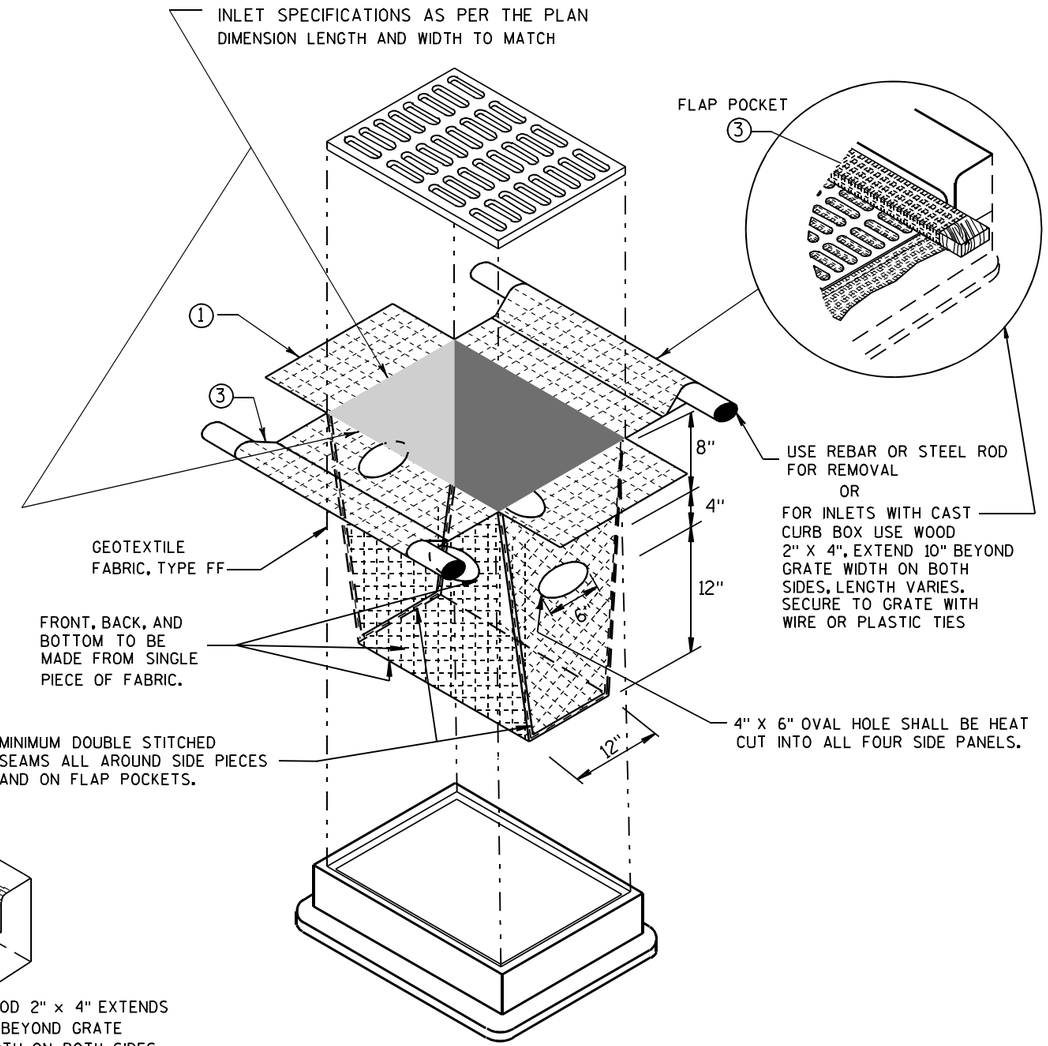


INLET PROTECTION, TYPE A



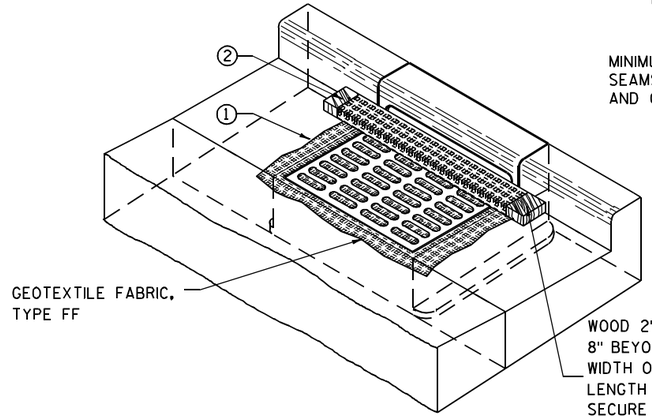
INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)



INLET PROTECTION, TYPE C (WITH CURB BOX)

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

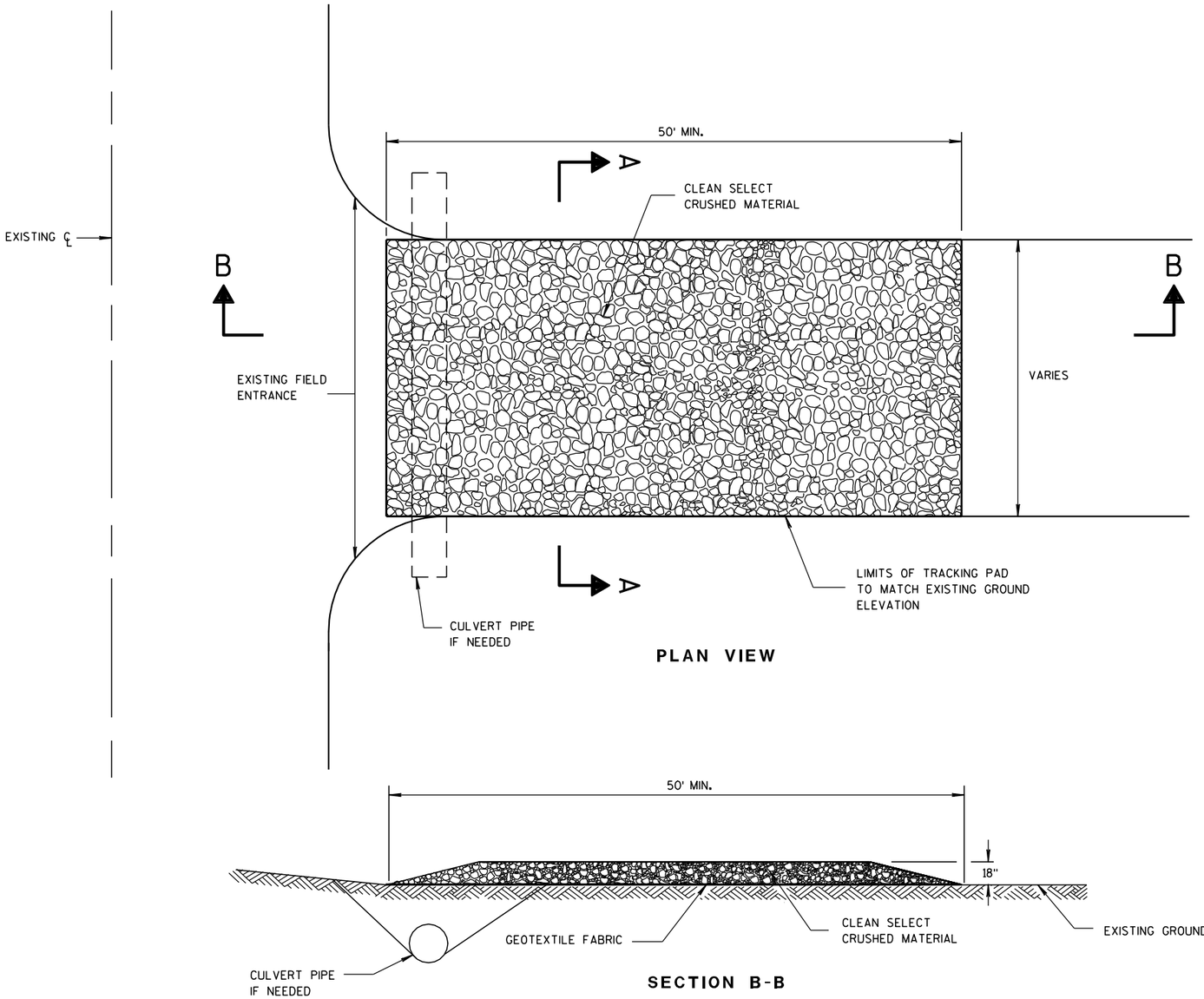
THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/16/02
DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 E 10-2



PLAN VIEW

SECTION B-B

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

TRACKING PAD SHALL BE INSPECTED DAILY. DEFICIENT AREAS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

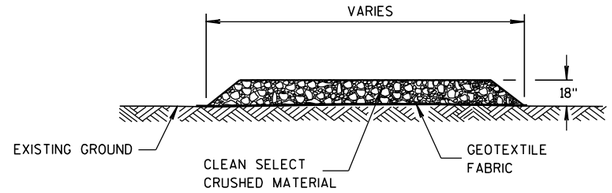
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT.

SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY, AROUND OR CONVEYED UNDER THE TRACKING PAD.

CULVERT PIPE OR OTHER BMP USED TO DIVERT WATER AWAY, AROUND OR UNDER THE TRACKING PAD SHALL BE DESIGNED TO CONVEY THE 2 YEAR - 24 HOUR EVENT.

THE COST OF ADDITIONAL BMP TO DIVERT WATER ARE INCIDENTAL TO THE TRACKING PAD BID ITEM.



SECTION A-A

TRACKING PAD

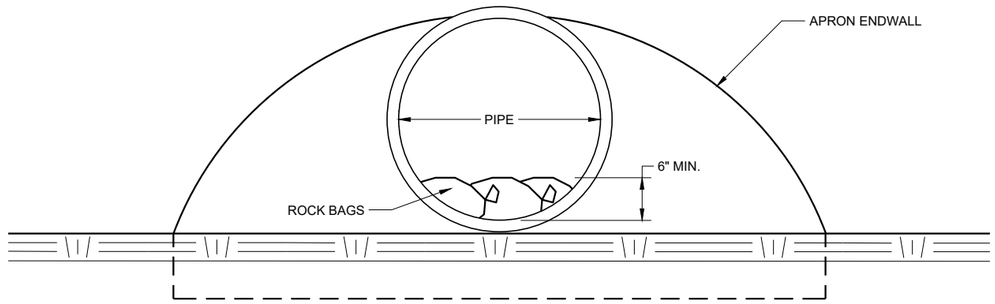
TRACKING PAD	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 3/24/2011 DATE FHWA	/S/ Jerry H. Zoda ROADWAY STANDARDS ENGINEER
	104
	ENT

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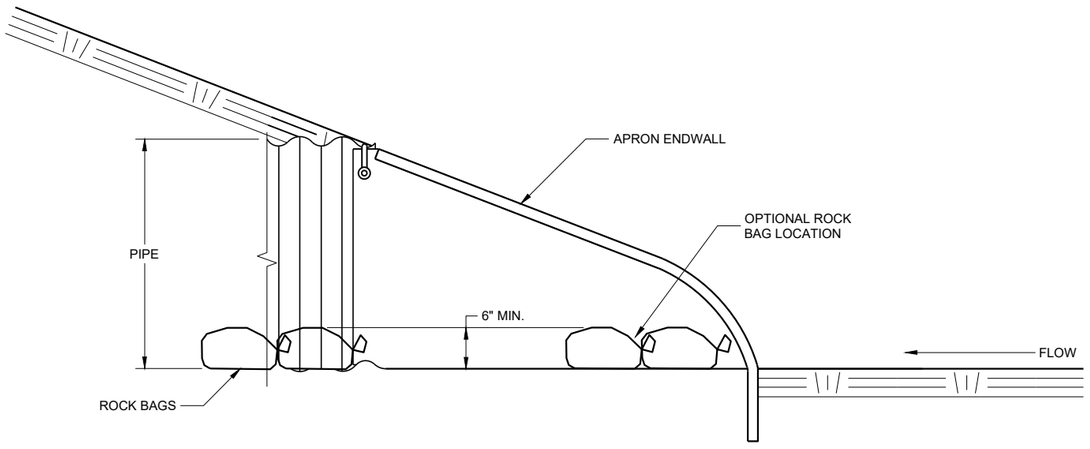
S.D.D. 8 E 14-1

6

S.D.D. 8 E 14-1



END VIEW



SIDE VIEW

CULVERT PIPE CHECK

(INSTALL ON INLET END ONLY)

CULVERT PIPE CHECK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE

/S/ Daniel Schave
EROSION CONTROL ENGI

FHWA

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SDD 08E15 - 01

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SDD 08E15 - 01

METAL APRON ENDWALLS

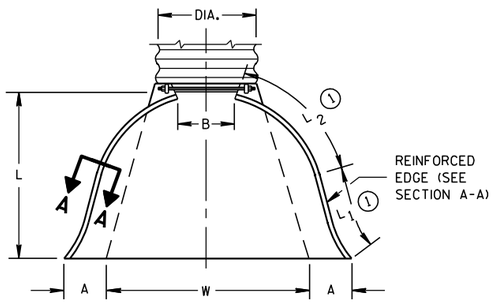
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 1	1 Pc.
21	.064	.060	9	12	6	36	18	29 5/8	42	2 1/2 to 1	1 Pc.
24	.064	.075	10	13	6	41	18	37 1/4	48	2 1/2 to 1	1 Pc.
30	.079	.075	12	16	8	51	18	52 1/4	60	2 1/2 to 1	1 Pc.
36	.079	.105	14	19	9	60	24	59 3/4	72	2 1/2 to 1	2 Pc.
42	.109	.105	16	22	11	69	24	75 5/8	84	2 1/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 1/4 to 1	3 Pc.
54	.109	.105	18	30	12	84	30	85 1/2	102	2 1/4 to 1	3 Pc.
60	.109×	.105×	18	33	12	87	—	—	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	—	—	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	—	—	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	—	—	132	1 1/2 to 1	3 Pc.
84	.109×	.105×	18	45	12	87	—	—	138	1 1/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	—	—	144	1 1/2 to 1	3 Pc.
96	.109×	.105×	18	35	12	87	—	—	150	1 1/2 to 1	3 Pc.

× EXCEPT CENTER PANEL SEE GENERAL NOTES

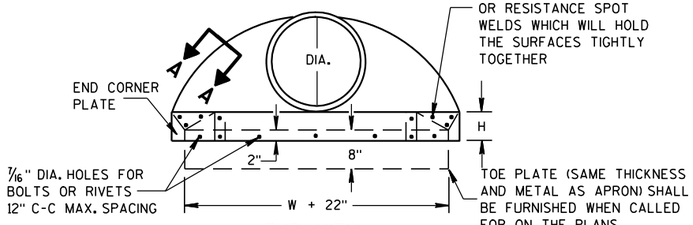
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches) T	A	B	C	D	E	G	APPROX. SLOPE
12	2	4	24	48 7/8	72 1/8	24	2	3 to 1
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	3 to 1
30	3 1/2	12	54	19 3/4	73 1/2	60	3 1/2	3 to 1
36	4	15	63	34 3/4	97 3/4	72	4	3 to 1
42	4 1/2	21	63	35	98	78	4 1/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	5 1/2	27	65	* 33 1/4 - ** 35	* 98 1/4 - ** 100	90	5 1/2	2 2/5 to 1
60	6	* 30 - ** 35	60	39	99	96	5	2 to 1
66	6 1/2	* 24 - ** 30	* 72 - ** 78	* 21 - ** 27	99	102	5 1/2	2 to 1
72	7	* 24 - ** 36	78	21	99	108	6	2 to 1
78	7 1/2	* 24 - ** 36	78	21	99	114	6 1/2	2 to 1
84	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2 to 1
90	8 1/2	41	87 1/2	24	111 1/2	132	6 1/2	1 1/2 to 1

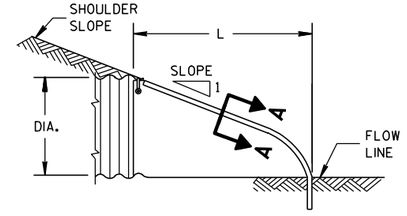
*MINIMUM
**MAXIMUM



PLAN VIEW

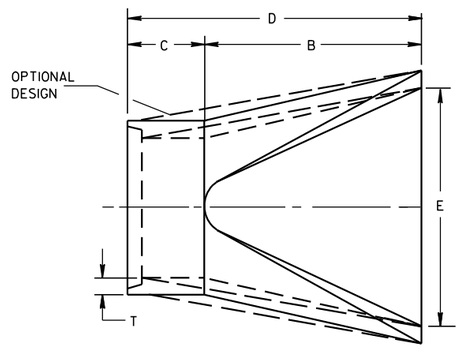


END VIEW

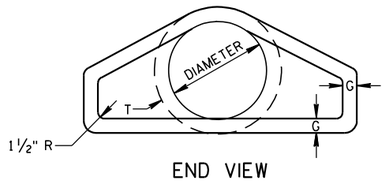


SIDE ELEVATION

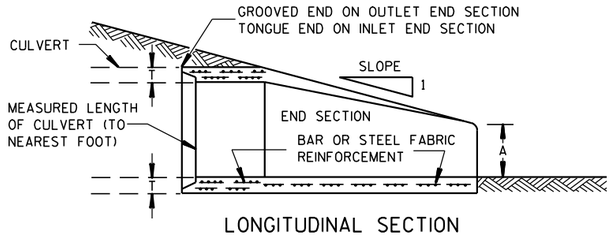
METAL ENDWALLS



PLAN

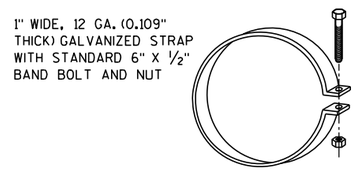


END VIEW



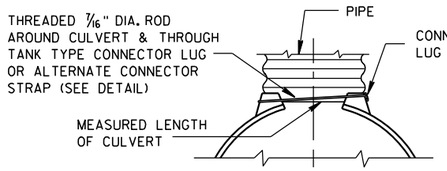
LONGITUDINAL SECTION

CONCRETE ENDWALLS

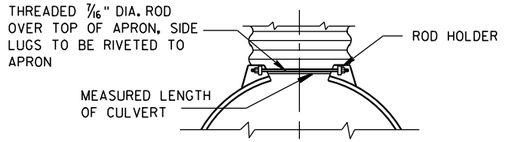


ALTERNATE FOR TYPE 1 CONNECTION

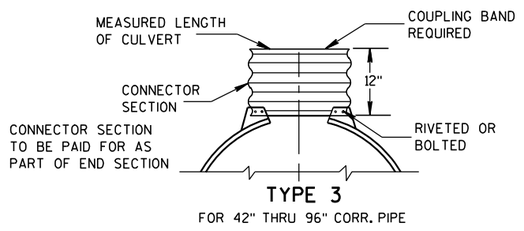
END SECTION CONNECTOR STRAP



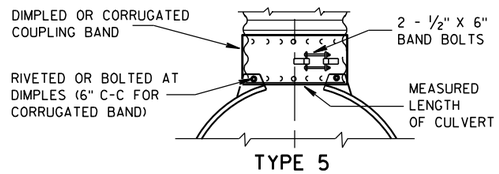
TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

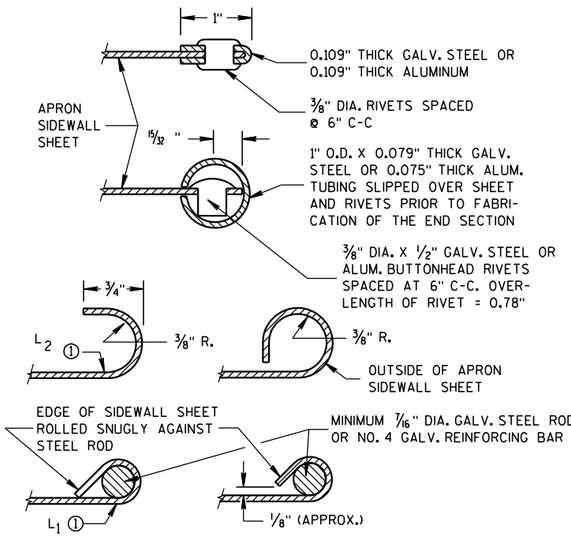
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

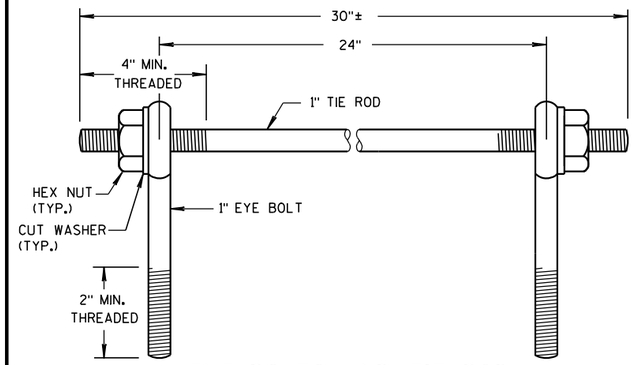
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

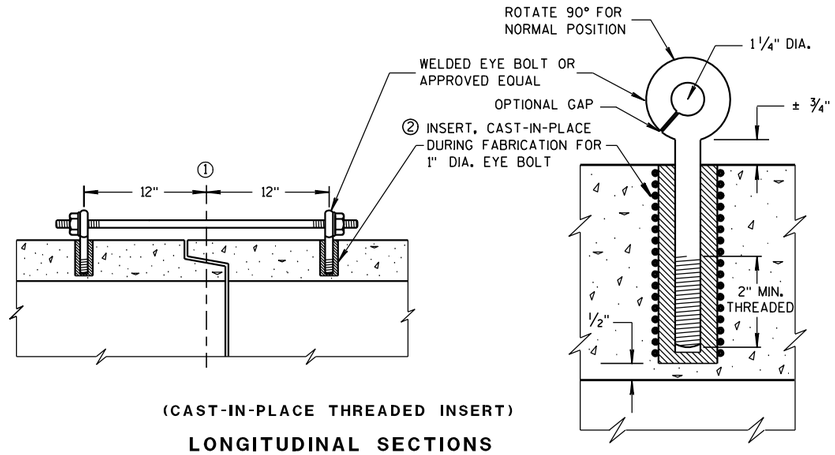
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/30/94 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 F 1-11



EYE BOLTS AND TIE ROD



(CAST-IN-PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

① ℄ OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.

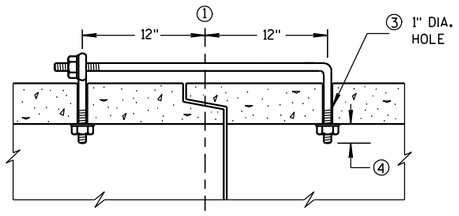
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ℄ OF TONGUE AND GROOVE.

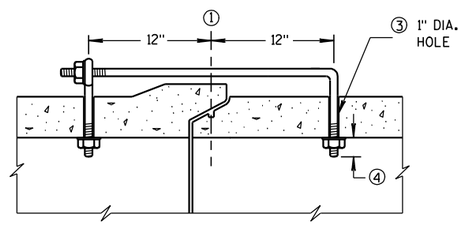
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

⑤ OPENING TO BE ROD DIAMETER PLUS 1 INCH.

⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN 1/2 INCH OF THE INNER SURFACE OF THE PIPE.



(TONGUE & GROOVE PIPE)

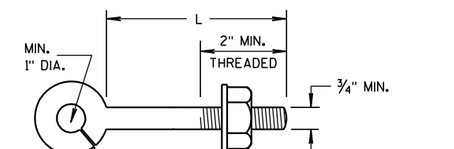


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

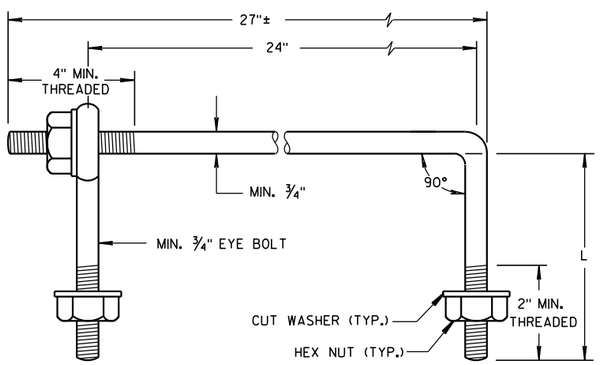
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



NOTE:

EYE BOLT

NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD

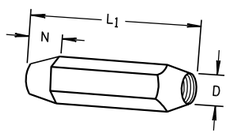
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)

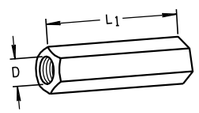
ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12-60	5/8	5/8	5	1/2
66-84	3/4	3/4	5	1/2
90-108	1	1	7	1 1/16

DIMENSIONS SHOWN ARE IN INCHES



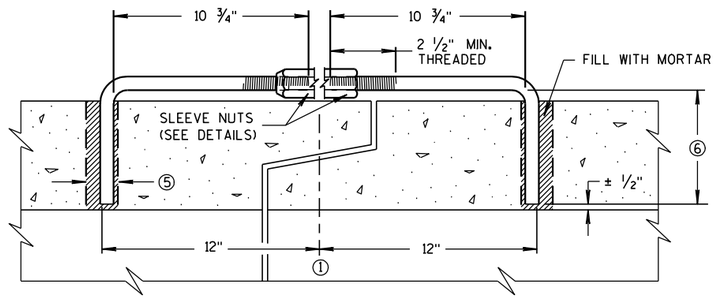
TAPERED



PLAIN

RIGHT AND LEFT THREADS

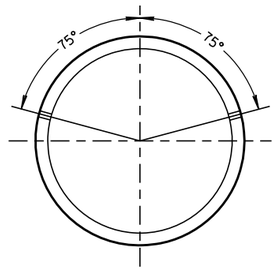
SLEEVE NUTS



LONGITUDINAL SECTION

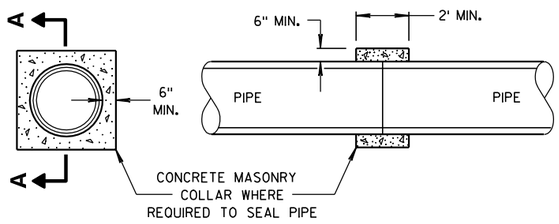
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A-A

CONCRETE COLLAR DETAIL

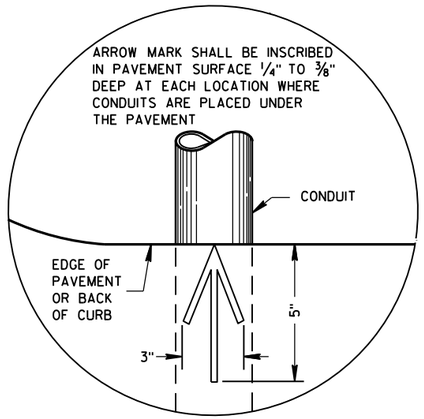
JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
107
FHWA

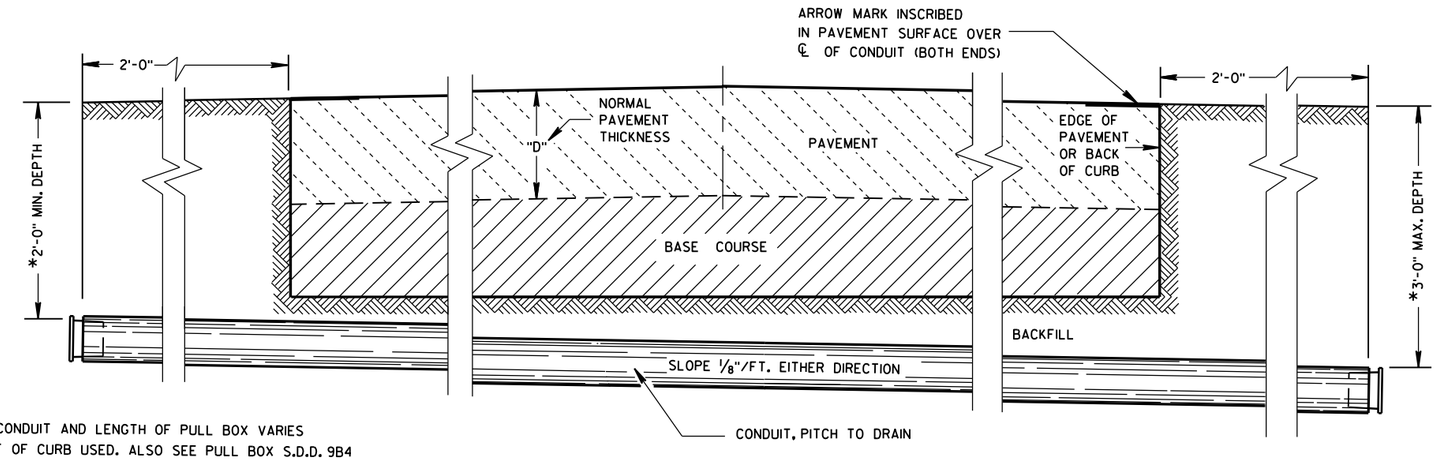
6

S.D.D. 8 F 4-7



PLAN VIEW

ARROW MARK



*DEPTH OF CONDUIT AND LENGTH OF PULL BOX VARIES WITH HEIGHT OF CURB USED. ALSO SEE PULL BOX S.D.D. 9B4

SIDE ELEVATION

DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

METALLIC (STANDARD SPECIFICATION 652.2.2) OR NONMETALLIC (STANDARD SPECIFICATION 652.2.3) CONDUIT SHALL BE FURNISHED AND PLACED AS SHOWN.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

ALL METALLIC CONDUIT IN WHICH WIRE OR CABLE IS TO BE INSTALLED SHALL BE BUSHED WITH APPROVED THREADED BUSHINGS BEFORE INSTALLATION OF THE WIRE OR CABLE.

ALL METALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT TO BE INSTALLED SHALL BE CAPPED WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.

ALL NONMETALLIC CONDUIT SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION AND SHALL REMAIN CAPPED OR PLUGGED UNTIL WIRE/CABLES ARE INSTALLED.

NONMETALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR EMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON NONMETALLIC CONDUIT. (SEE NEC 347.5)

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY U.L. LISTED ADAPTER FITTINGS SHALL BE USED.

PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REINSTALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY ATTACHED.

CONDUIT RUNS SHALL BE THE SAME SIZE OF CONDUIT FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX-OR-JUNCTION BOX TO JUNCTION BOX-OR-BASE TO BASE, ETC.).

TRACER WIRE SHALL BE INSTALLED AS STATED IN THE STANDARD SPECIFICATION, ITEM 652.3.1.1.

ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS.

CONDUIT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March, 2017 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6

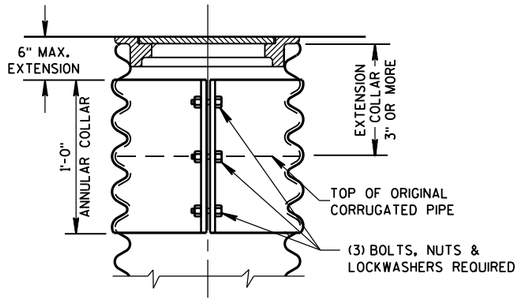
S.D.D. 9 B 2-10

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

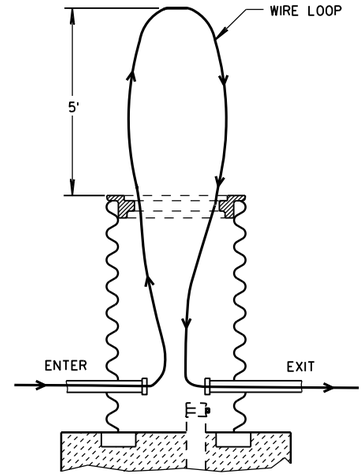
DIMENSION IN INCHES		CORRUGATED STEEL PIPE								
PIPE DIAMETER (INSIDE)	A	12	12	12	18	18	18	24	24	24
PIPE LENGTH **	B	24	30	36	24	30	36	36	42	48
WALL THICKNESS	C	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
COVER	D	10 1/4	10 1/4	10 1/4	16 1/4	16 1/4	16 1/4	22 1/4	22 1/4	22 1/4
FRAME	E	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2	26 1/2	26 1/2	26 1/2
FRAME	F	8 1/2	8 1/2	8 1/2	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2
FRAME	G	11 1/2	11 1/2	11 1/2	17 1/2	17 1/2	17 1/2	23 1/2	23 1/2	23 1/2
WEIGHT IN POUNDS *										
FRAME AND COVER		60	60	60	110	110	110	155	155	155

* THE ACTUAL WEIGHT OF THE MANHOLE FRAME AND COVER MAY VARY WITHIN 5 PERCENT PLUS OR MINUS OF THE WEIGHTS SHOWN.

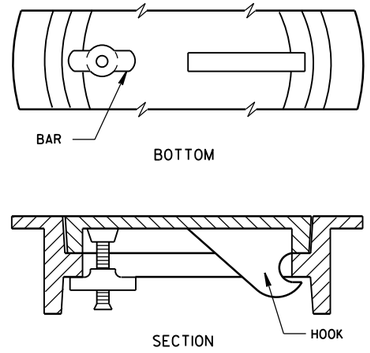
** NORMALLY USED LENGTHS. THE PROJECT ENGINEER SHALL DETERMINE IF PIPE LENGTHS, OTHER THAN THOSE SPECIFIED, SHALL BE USED, TO A MAXIMUM OF 48" (CONTINUOUS LENGTH, NON-SPLICED). THE ADDITIONAL LENGTH SHALL BE INCIDENTAL TO THE PULL BOX BID PRICE.



CORRUGATED PIPE EXTENDER

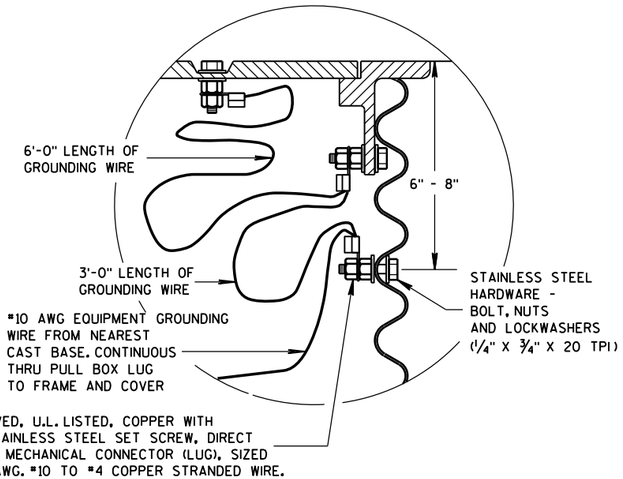


MEASUREMENT DETAIL FOR WIRE/CABLE IN THE PULL BOX

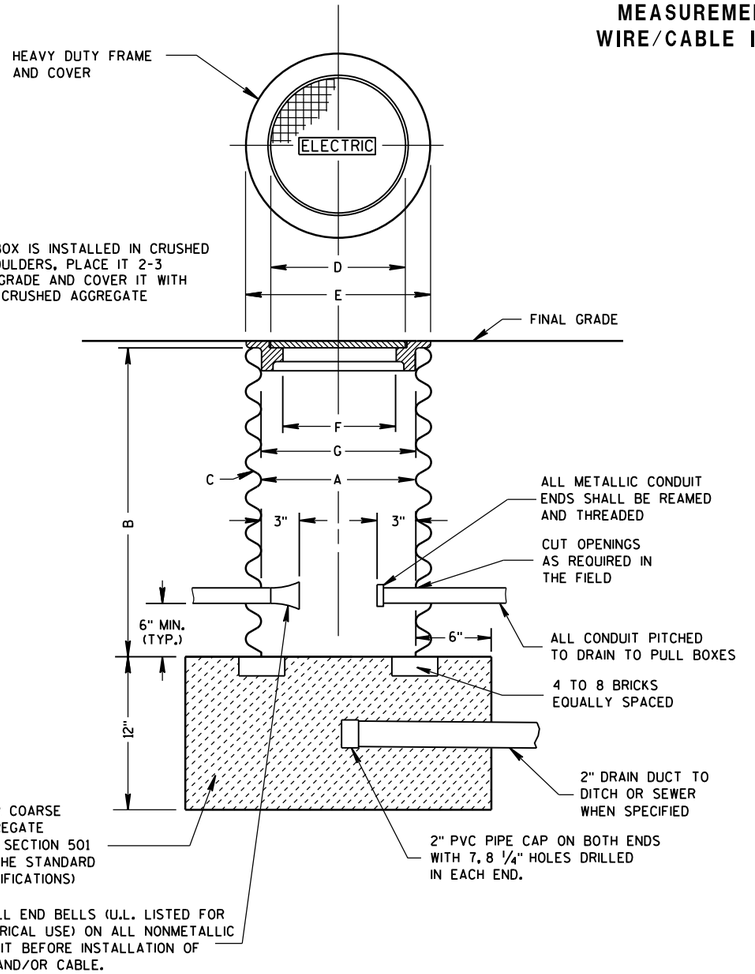


ALTERNATE COVER (LOCKING)

TIGHTENING BAR TYPE



EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES



PULL BOX

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

ALL FRAMES AND COVERS SHALL BE HEAVY DUTY TYPE, SUITABLE FOR VEHICULAR TRAFFIC LOADS.

PULL BOXES LOCATED IN THE ROADWAYS SHALL HAVE LOCKING COVERS.

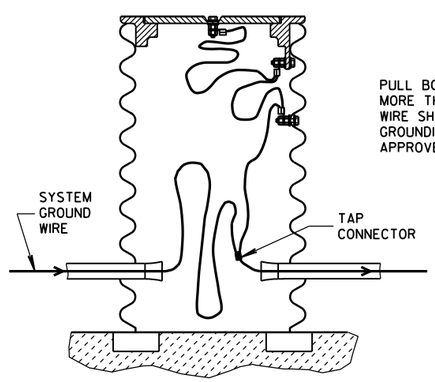
ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN 1/4".

THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

GROUNDING LUGS (MECHANICAL CONNECTORS) SHALL BE U.L. LISTED AND APPROVED FOR USE WITH COPPER WIRE.

ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED, SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.

WHEN PULL BOXES ARE INSTALLED FOR FUTURE USE, DO NOT INSTALL THE EQUIPMENT GROUNDING LUG. THE EQUIPMENT GROUNDING LUG, THE EQUIPMENT GROUNDING ELECTRODE AND THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE REQUIRED AND INSTALLED UNDER A FUTURE WIRING CONTRACT.



PULL BOX TO NEAREST BASE DISTANCE MORE THAN 20 FEET. PULL BOX GROUND WIRE SHALL CONNECT AT SYSTEM GROUNDING WIRE. USE DEPARTMENT APPROVED TAP CONNECTOR.

EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES

PULL BOX

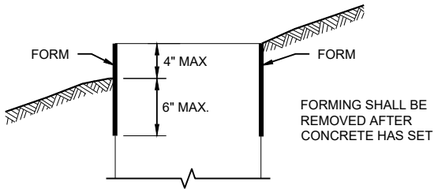
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL
FHWA

6

S.D.D. 9 B 4-11

FORM DEPTH SHALL BE NO MORE THAN 6" BELOW GRADE ON THE LOWER SIDE OF BASE



FORMING DETAIL

QUANTITY REQUIREMENTS	CONCRETE BASE TYPE		
	1	2	5 & 6
APPROX. CUBIC YARDS OF CONCRETE	0.40	0.57	0.40
LBS. OF HOOP BAR STEEL	NONE	23	16
LBS. OF VERTICAL BAR STEEL	NONE	60	18

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWINGSHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE SHOWN ON THE PLANS

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN A THE ENTRANCE OF THE BASE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FRO FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 1 INCH. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION.

WHEN REQUIRED TO CONNECT NON-METALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD) FOR TYPE 2, TYPE 5 AND TYPE 6 BASES.

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER ALL BASE TYPES THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD. ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 OF THE STANDARD SPECIFICATIONS.

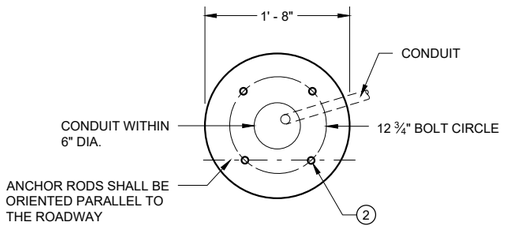
WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

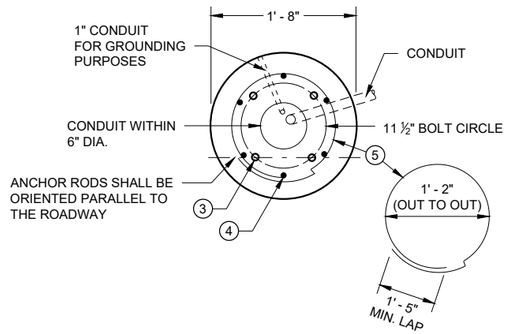
WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4 INCH"L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND SHALL NOT BE THREADED.

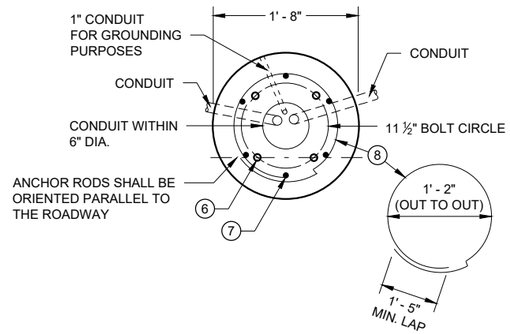
ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

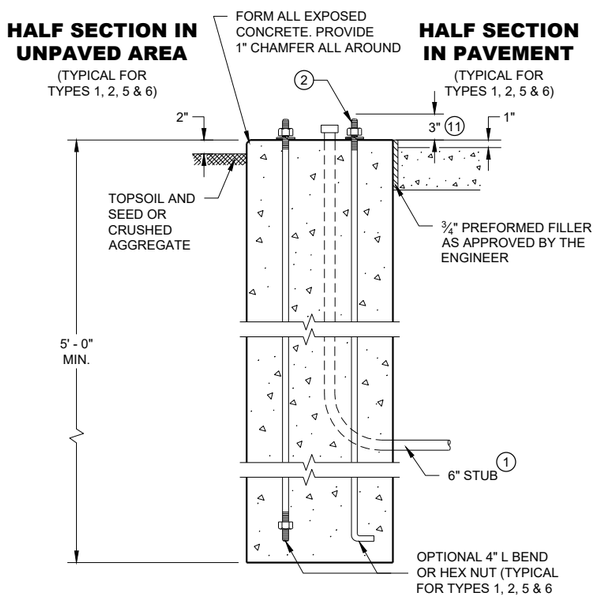
WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TIE WIRES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

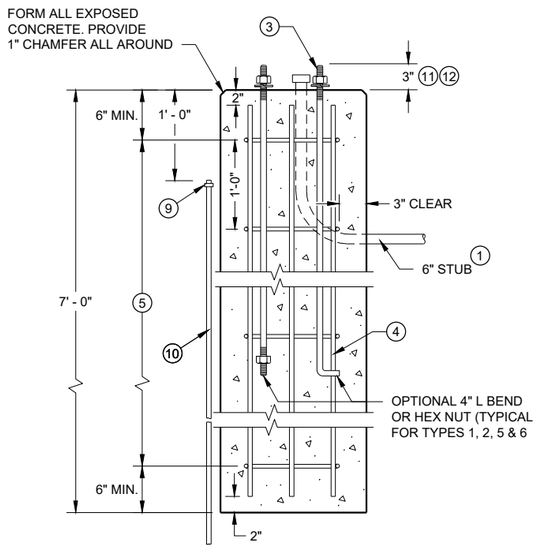




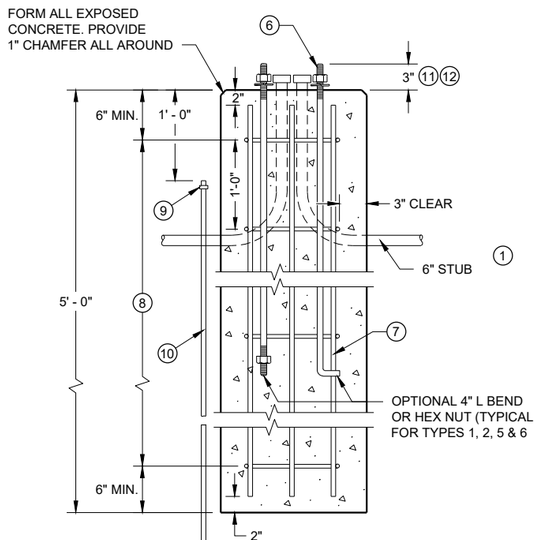




TYPE 1



TYPE 2



TYPE 5 & 6

1 THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES EXCEPT WITH WRITTEN APPROVAL OF THE ENGINEER.

2 (4) 1" DIA. X 3' - 6" ANCHOR RODS.

3 (4) 1" DIA. X 5' - 0" ANCHOR RODS.

4 (6) NO. 6 X 6' - 8" BAR STEEL REINFORCEMENT.

5 (7) NO. 4 X 5' - 1" BAR STEEL REINFORCEMENT @ 1' - 0" C - C.

6 (4) 1" DIA. X 3' - 6" ANCHOR RODS.

7 (6) NO. 4 X 4' - 8" BAR STEEL REINFORCEMENT.

8 (5) NO. 4 X 5' - 1" BAR STELL REINFORCEMENT @ 1' - 0" C -C.

9 EXOTHERMIC CONNECTION TO EUIPMENT GROUNDING CONDUCTOR

10 ⅝" DIA. X 8' -0" COPPERCLAD EQUIPMENT GROUNDING ELECTRODE REQUIRED

11 ANY ANCHOR ROD PROJECTION SHORTER THAN 2 ¾" OR LONGER THAN 3 ¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

12 FOR NON - BREAKAWAY INSTALLATIONS, 4 ½" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.

CONCRETE BASES

CONCRETE BASES
TYPES 1, 2, 5, & 6

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 110

FHWA

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

FOUR (4) BOLTS SHALL BE FURNISHED WITH EACH TRANSFORMER BASE. BOLTS SHALL BE 1" DIAMETER, 4" IN LENGTH, WITH WASHERS, LOCK WASHERS AND NUTS. BOLTS, NUTS AND WASHERS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 531.2.2 OF THE STANDARD SPECIFICATIONS.

LEVELING SHIMS, IF NEEDED, SHALL BE DESIGNED FOR THE PURPOSE AND USED UNDER CAST BASES WHEN PLUMBING POLES OR STANDARDS DURING INSTALLATION. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE.

SHIM LENGTH SHALL BE LONG ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.

DOUBLE NUTTING IS NOT ACCEPTABLE FOR LEVELING OR MOUNTING PURPOSES.

A NEMA APPROVED, U.L. LISTED, COPPER WITH BRASS OR STAINLESS STEEL SET SCREW, DIRECT BURY RATED, MECHANICAL CONNECTOR (LUG), SIZED TO ACCEPT AWG. #10 TO #4 COPPER STRANDED WIRE SHALL BE FURNISHED AND INSTALLED IN THE PEDESTAL AND TRANSFORMER BASES.

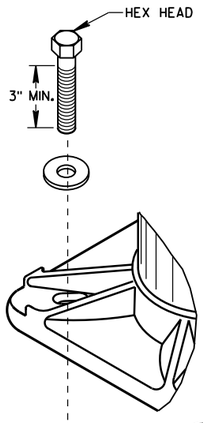
THE MECHANICAL CONNECTOR SHALL BE INSTALLED USING A 1/4" - 20 (TPI) STAINLESS STEEL HEX HEAD BOLT OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE.

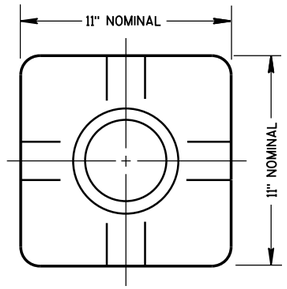
SHOULD THE MANNER OF ATTACHMENT OF THE LUG REQUIRE WASHERS, HEX NUTS, LOCK WASHER - THEY SHALL BE STAINLESS STEEL AS IS THE BOLT. THE MANNER OF ATTACHMENT SHALL NOT BLOCK ACCESSIBILITY TO WIRE PLACEMENT IN THE CONNECTOR.

PEDESTAL BASE COLLAR THREADING SHALL BE TAPERED AND IN ACCORDANCE WITH NATIONAL PIPE THREADING DIMENSIONS.

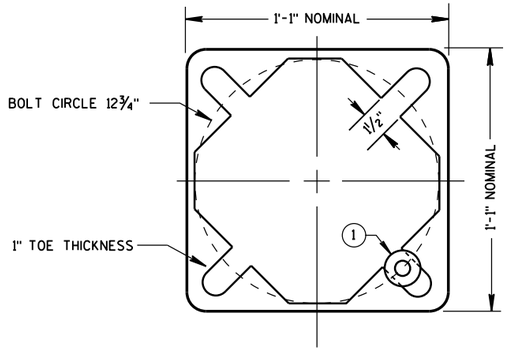
BASE COLLAR THREADING SHALL EXTEND INTO THE BASE COLLAR WITH SUFFICIENT DEPTH TO ACCEPT THE INSTALLATION OF TRAFFIC SIGNAL STANDARDS TO A DEPTH OF 1 1/2", THEN TIGHTENING TO A POINT OF BEING IMMOVABLE.

THE ACCESS DOOR SHALL BE OF THE SAME MATERIAL AS THE BASE.

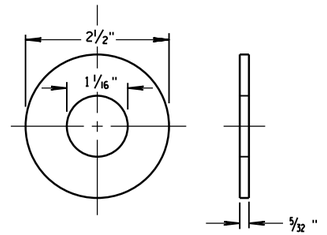




TOP VIEW
(PEDESTAL BASE)

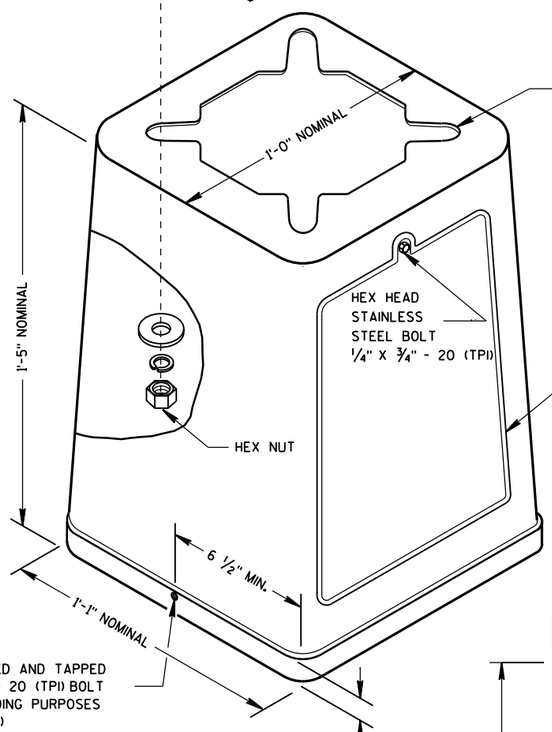


BOTTOM VIEW
(PEDESTAL BASE)

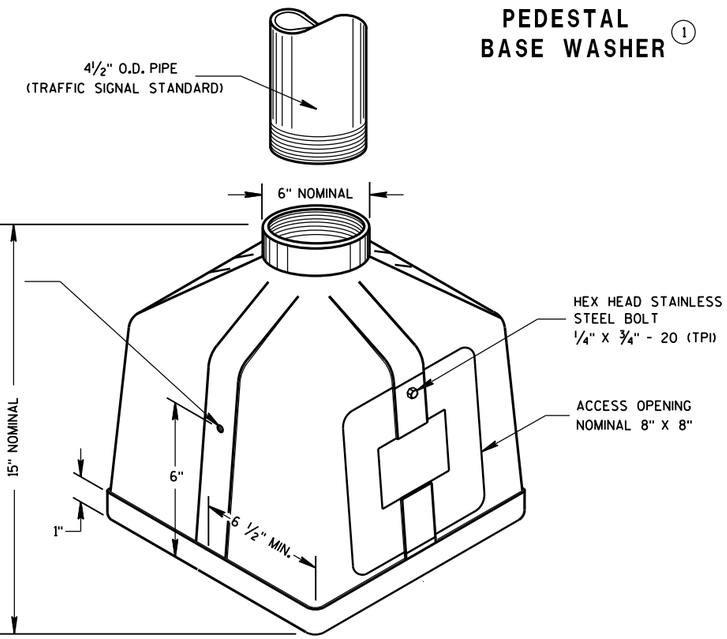


ZINC COATED STEEL WASHER
TO BE PROVIDED BY THE CONTRACTOR

PEDESTAL BASE WASHER (1)

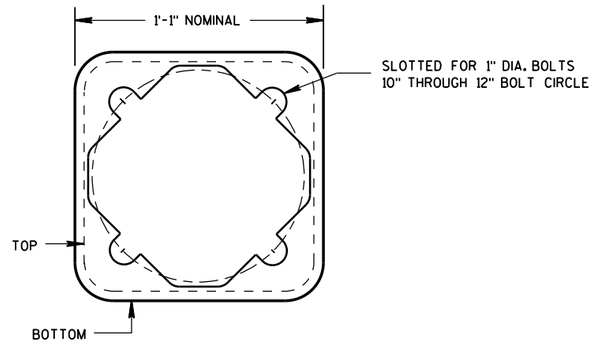


ISOMETRIC VIEW

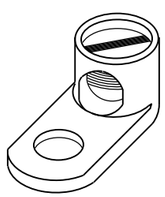


ISOMETRIC VIEW

PEDESTAL BASE



BOTTOM VIEW
(TRANSFORMER BASE)

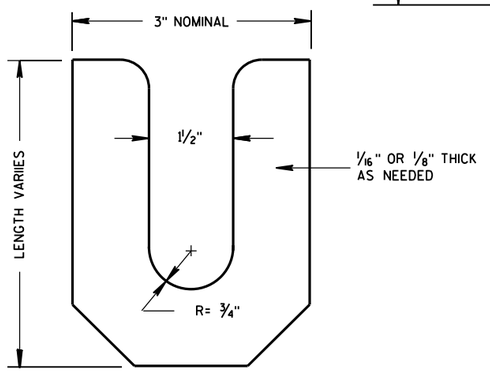


TYPICAL MECHANICAL CONNECTOR LUG

TO BE FURNISHED WITH EACH BASE

TRANSFORMER BASE

INTENDED FOR USE WITH TYPE 2, 3, 4, 5 & 6 POLES



LEVELING SHIM

TRANSFORMER/PEDESTAL BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

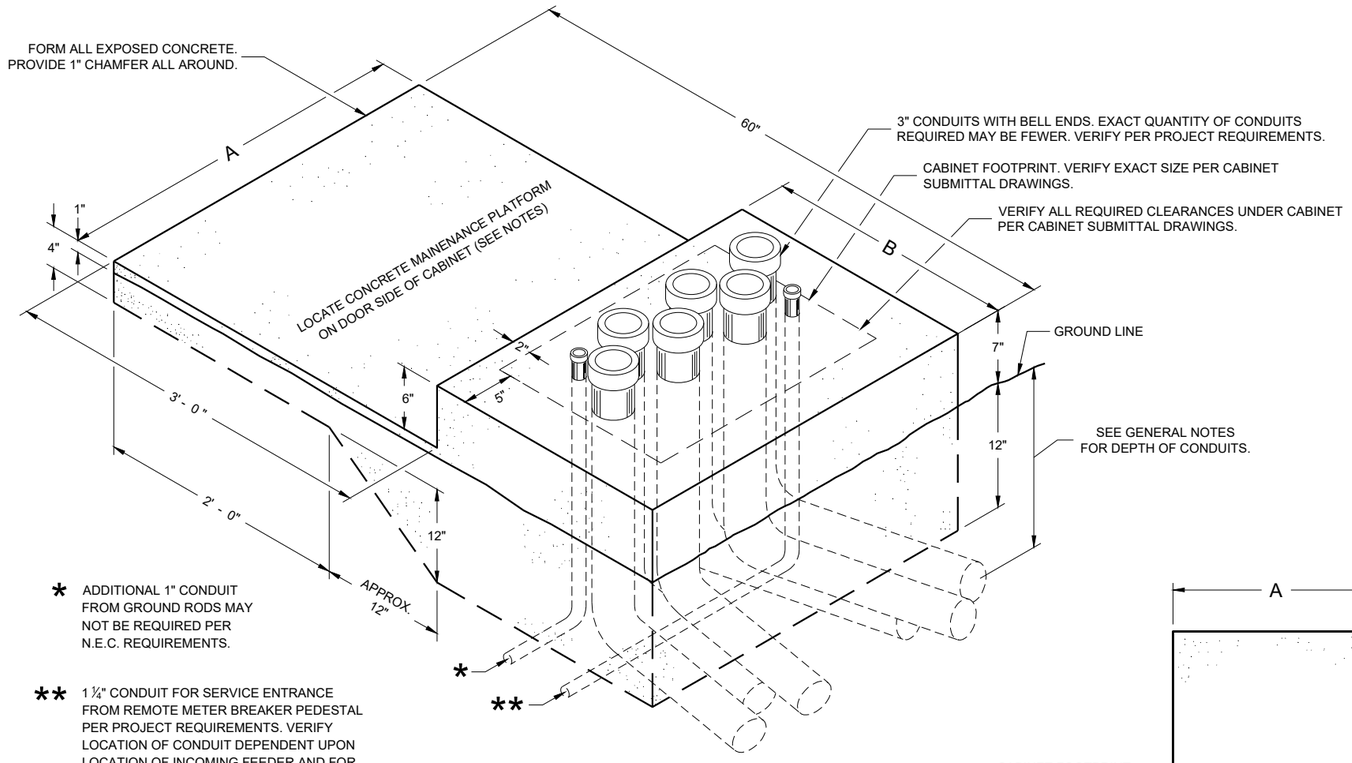
APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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S.D.D. 9 C 3-4

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S.D.D. 9 C 3-4



* ADDITIONAL 1" CONDUIT FROM GROUND RODS MAY NOT BE REQUIRED PER N.E.C. REQUIREMENTS.

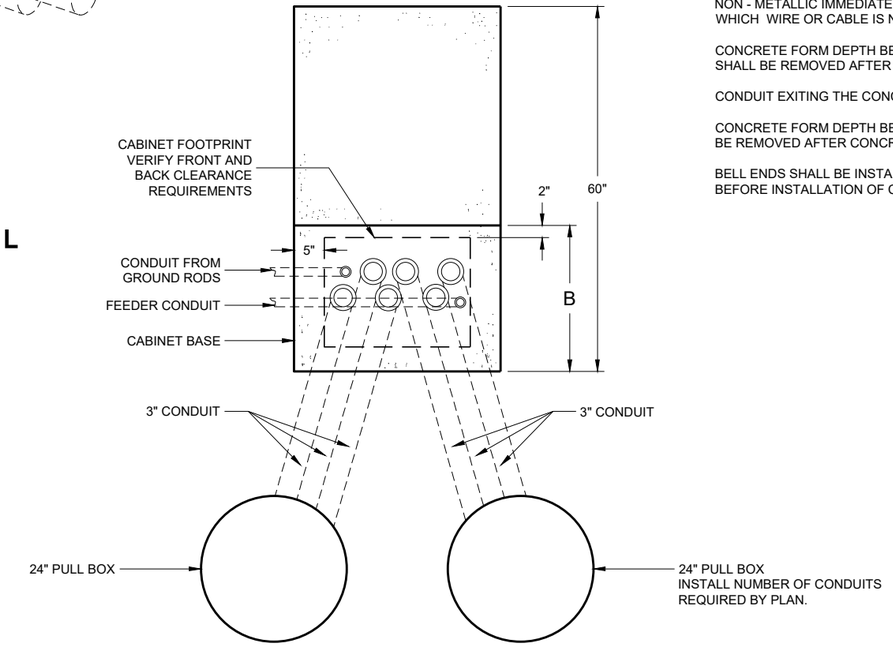
** 1 ¼" CONDUIT FOR SERVICE ENTRANCE FROM REMOTE METER BREAKER PEDESTAL PER PROJECT REQUIREMENTS. VERIFY LOCATION OF CONDUIT DEPENDENT UPON LOCATION OF INCOMING FEEDER AND FOR EASE OF CONNECTION TO LOAD CENTER.

ISOMETRIC VIEW

CONCRETE CONTROL CABINET BASE, TYPE L

(C.Y. CONCRETE = APPROX. 0.4)

CONCRETE BASE TYPE	CABINET WIDTH	DIMENSIONS		MAXIMUM 3" CONDUITS
		A	B	
L24	24"	34"	24"	4
L30	30"	40"	24"	6



PLAN VIEW

CONCRETE CONTROL CABINET BASE, TYPE L

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

INSTALL FOUR STAINLESS STEEL APPROVED CONCRETE MASONRY ANCHORS TO ANCHOR THE CABINET BASES. THE ANCHORS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER TO PROPERLY ANCHOR THE CONTROL CABINET TO THE BASE.

WHEN REQUIRED TO CONNECT NON - METALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U. L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 1 INCH.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

LOCATIONS SHALL BE AS SHOWN ON THE PLANS UNLESS DETERMINED BY THE ENGINEER IN THE FIELD.

CONTROL CABINET BASE TOP SURFACE SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

MAINTENANCE PLATFORM SHALL BE FLOAT OR BROOM FINISHED AND LEVEL.

MAINTENANCE PLATFORMS ARE NOT REQUIRED WHEN THE SURROUNDING AREA IS PAVED.

MINIMUM BENDING RADIUS OF CONDUIT EQUALS 6 TIMES THE DIAMETER.

ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

CAP ALL BELOW GRADE METALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

PLUG ALL BELOW GRADE NON - METALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON - METALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6 INCHES MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

CONDUIT EXITING THE CONCRETE BASE SHALL TERMINATE IN PULL BOXES AS SHOWN ON THE PLANS.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6 INCH MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF THE CONCRETE BASE BEFORE INSTALLATION OF CABLE OR WIRE.

CONCRETE CONTROL CABINET BASE, TYPE L

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

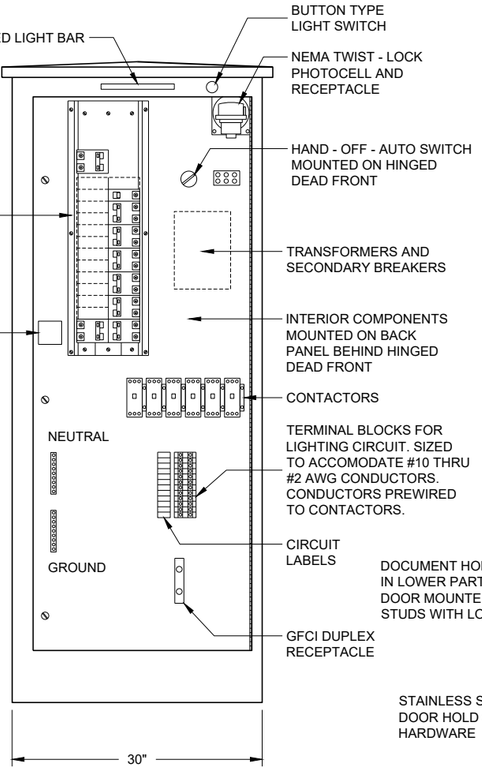
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI

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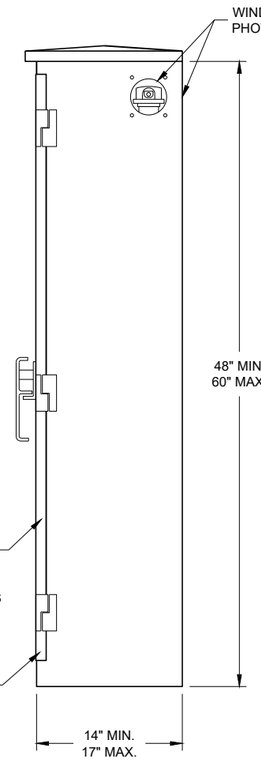
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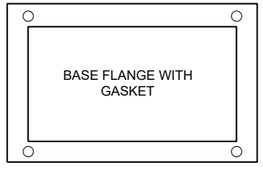
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FRONT INTERIOR ELEVATION

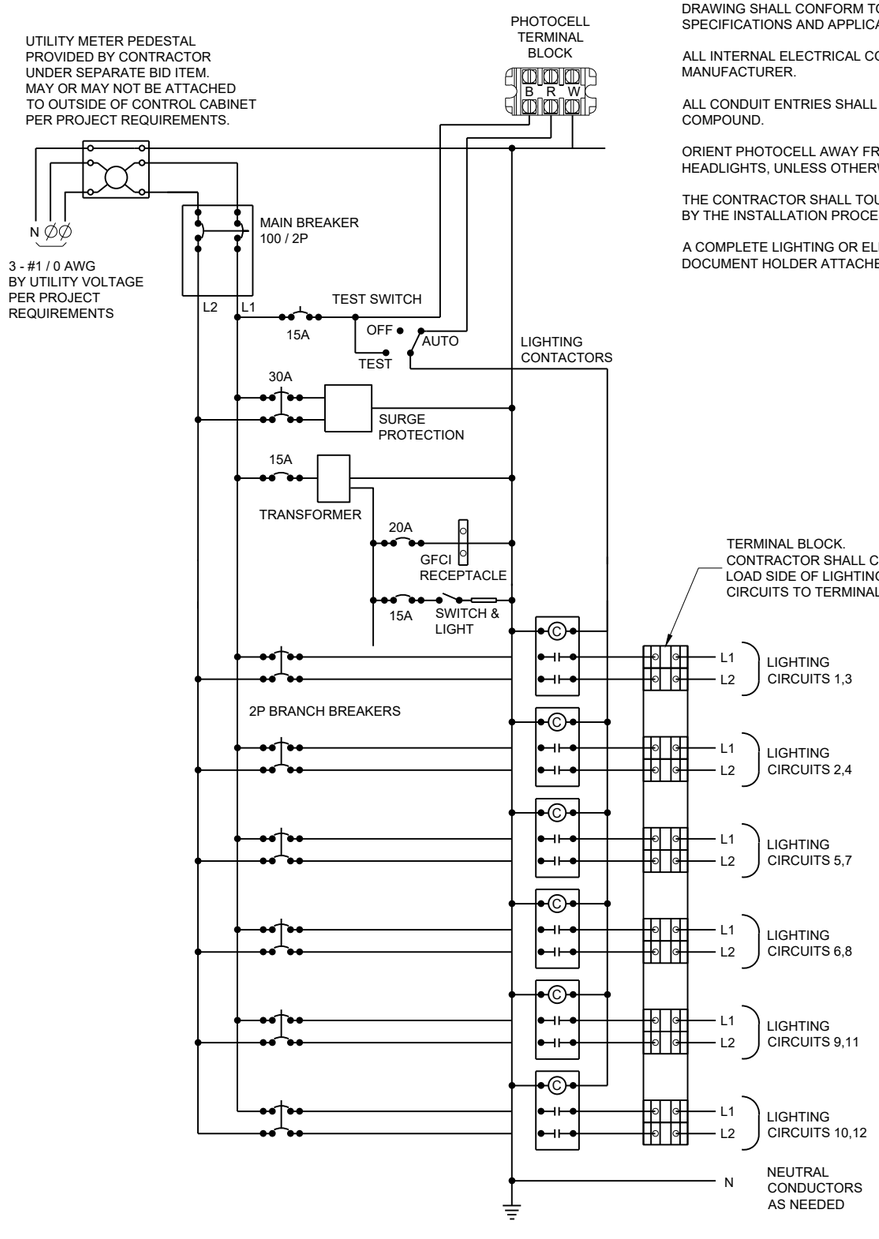


SIDE VIEW





LIGHTING CONTROL CABINET



CONTROL CABINET SCHEMATIC

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

ALL INTERNAL ELECTRICAL COMPONENTS WILL BE PRE - WIRED BY THE CABINENT MANUFACTURER.

ALL CONDUIT ENTRIES SHALL BE SEALED WITH AN APPROPRIATE DUCT SEALING COMPOUND.

ORIENT PHOTOCELL AWAY FROM AMBIENT LIGHT SOURCES AND ONCOMING TRAFFIC HEADLIGHTS, UNLESS OTHERWISE CALLED FOR IN THE SPECIAL PROVISION.

THE CONTRACTOR SHALL TOUCH UP ANY DAMAGE TO THE ANODIZED FINISH CAUSED BY THE INSTALLATION PROCESS. COLOR MATCH PAINT SHALL BE USED.

A COMPLETE LIGHTING OR ELECTRICAL PLAN SHALL BE SECURELY PLACED IN THE DOCUMENT HOLDER ATTACHED TO THE DOOR.

L30
LIGHTING CONTROL CABINET 240 / 480 VOLT

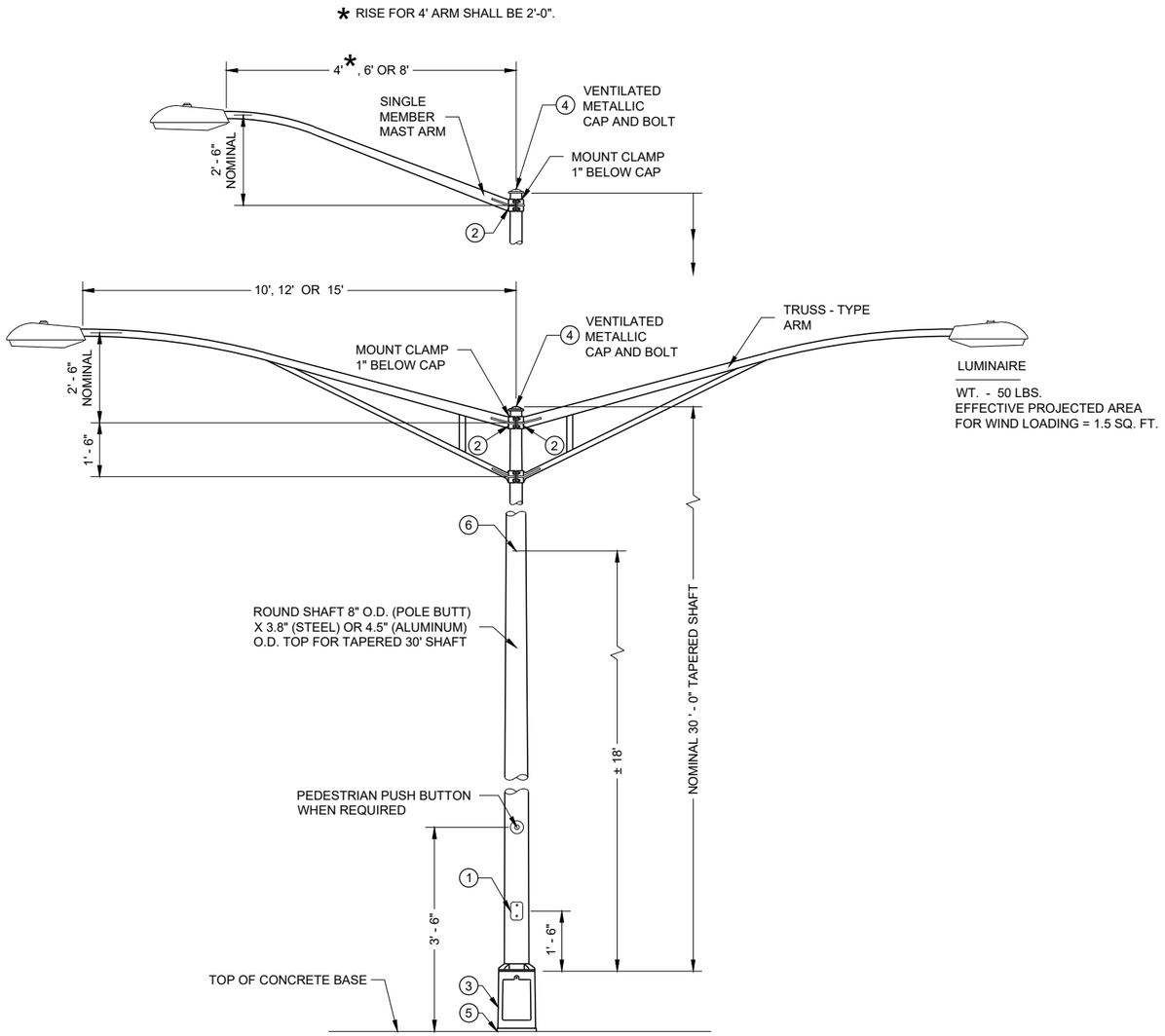
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 113

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TYPE 5 POLE MOUNTING CONFIGURATION
(MAXIMUM LOAD)
LIGHTING ONLY

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

SECTION 657, POLES, OF THE STANDARD SPECIFICATIONS SHALL APPLY TO THIS DRAWING.

ALL TYPE 5 POLE MOUNTINGS SHALL BE DESIGNED TO INCLUDE TWIN 15' ARMS WITH LUMINAIRES.

POLES SHALL BE GALVANIZED STEEL OR ALUMINUM, AS CALLED FOR IN THE CONTRACT.

TYPE 5 ALUMINUM POLES SHALL BE CONSTRUCTED OF 6063 - T6 ALUMINUM ALLOY. SLEEVING INSIDE THE POLE IS NOT ACCEPTABLE.

TYPE 5 ALUMINUM POLES SHALL HAVE A MINIMUM WALL THICKNESS OF 0.1888".

TYPE 5 STEEL POLES SHALL HAVE A MINIMUM WALL THICKNESS OF U.S. STANDARD 11 GAGE (0.1196").

THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 2 ⅜ INCHES IN OUTSIDE DIAMETER. THE STRAIGHT PORTION OF THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 12 INCHES IN LENGTH.

WHEN TRANSFORMER BASES ARE USED, WIRE CONNECTIONS SHALL BE MADE IN THE TRANSFORMER BASE.

(1) 4" X 6" REINFORCED HANDHOLE AND COVER ASSEMBLY WITH TWO (2) ¼" X ¾" - 20 TPI , STAINLESS STEEL, HEX HEAD BOLTS.

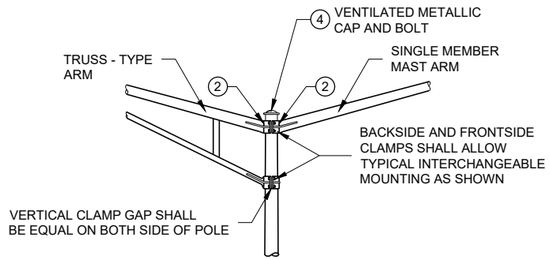
(2) GROMMETS. 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1 ⅜" HOLE IN POLE SHAFT FOR WIRING.

(3) CAST ALUMINUM TRANSFORMER BASE, WHEN REQUIRED.

(4) FURNISH AND INSTALL VENTILATED, CAST METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.

(5) SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND POLE.

(6) INTERNAL DUMBBELL - TYPE VIBRATION DAMPER.



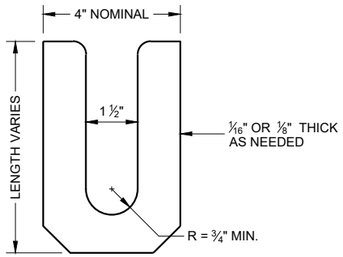
INTERCHANGEABLE MOUNTING DETAIL

POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 5 (30 FEET)

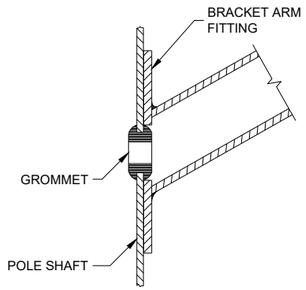
STATE OF WISCONSIN
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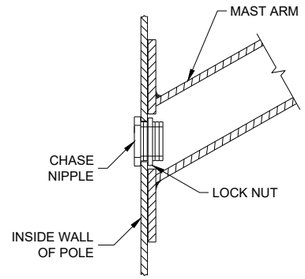
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LEVELING SHIM (1)
SHALL BE ALUMINUM



TYPICAL APPLICATION OF GROMMET IN POLE SHAFT



TYPICAL APPLICATION OF CHASE NIPPLE IN POLE SHAFT

GENERAL NOTES

CLAMP BOLT-NUT TIGHTENING TORQUE SHALL BE INDICATED BY INDENT STAMPING (1/2 INCH NUMERALS AND LETTERS) OR WEATHERPROOF PRINTING ON THE INSIDE OF THE CLAMP THAT IS WELDED TO THE ARM MEMBER.

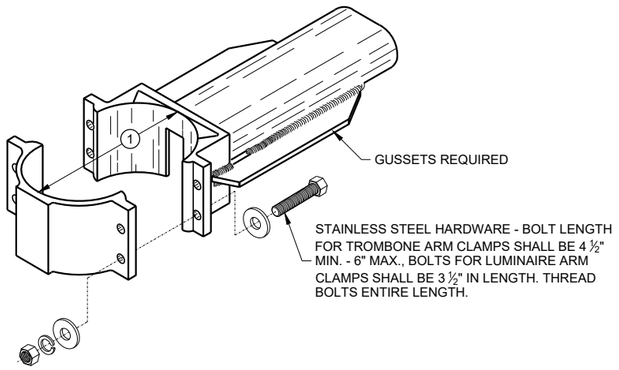
(1) 4.5" I.D. FOR LUMINAIRE MAST ARM CLAMP. 6.625" I.D. FOR TROMBONE MAST ARM CLAMP.

(2) INDIVIDUAL BASE PLATE ANCHOR ROD COVERS. (4 REQUIRED)

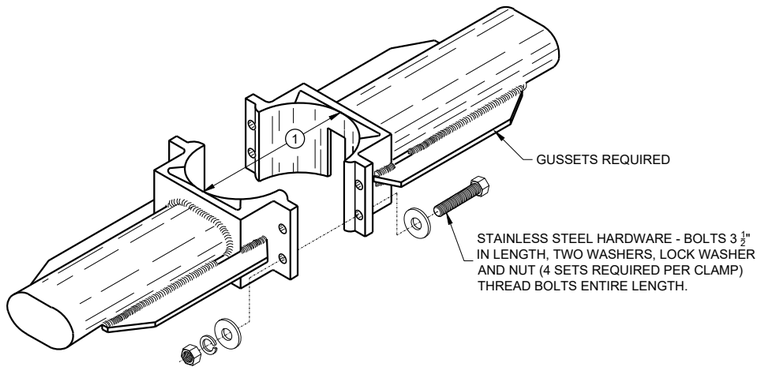
(3) BASE PLATE SLOTTED TO ACCEPT 11" THROUGH 12" BOLT CIRCLE USING 1" DIAMETER ANCHOR RODS.

(4) LEVELING SHIMS, DESIGNED FOR THE PURPOSE, SHALL BE USED WHEN PLUMBING POLES. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE. LEVELING SHIMS SHALL BE USED ONLY BETWEEN THE TOP OF THE CONCRETE BASE AND A METALLIC BASE PLATE.

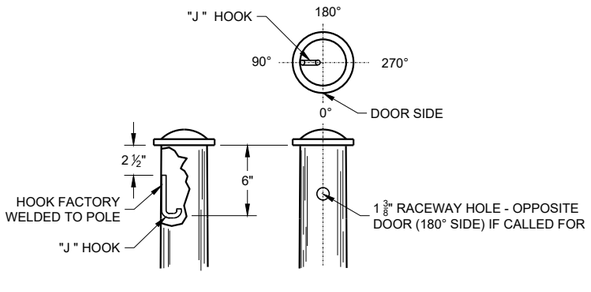
SHIMS SHALL BE LONG ENOUGH AND WIDE ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.



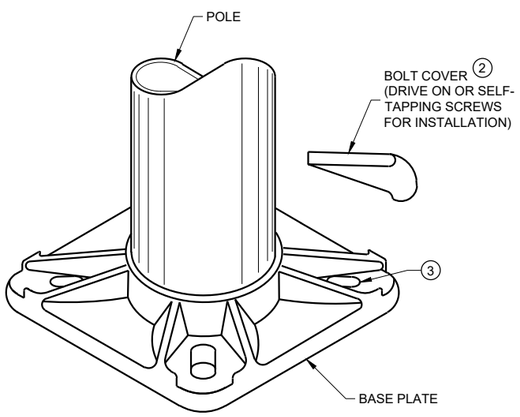
TYPICAL TROMBONE MAST ARM AND SINGLE LUMINAIRE MAST ARM MOUNTING CLAMP



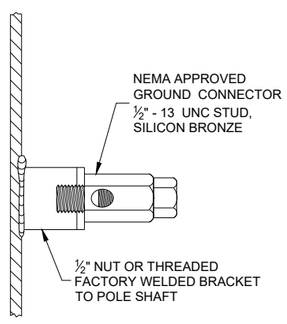
TYPICAL LUMINAIRE MAST ARM (DOUBLE) MOUNTING BRACKETS

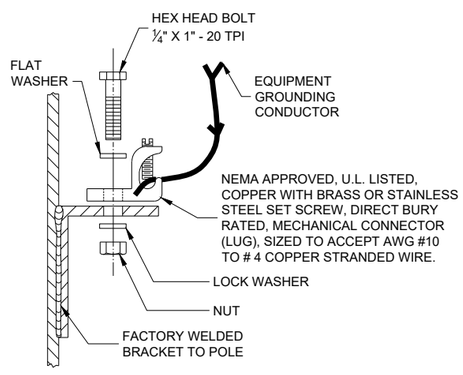


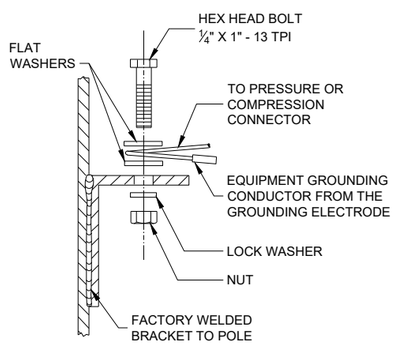
TYPICAL "J" HOOK LOCATION



BASE PLATE







TYPICAL GROUNDING CONNECTIONS
NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL

HARDWARE DETAILS FOR POLE MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 115

FHWA

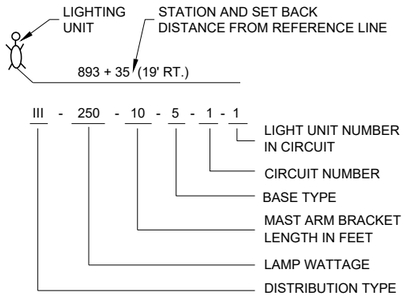
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SDD09A01 - 15g

GENERAL NOTES

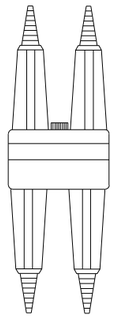
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

THE EQUIPMENT GROUND CONNECTOR SHALL BE TAPED WITH 3 WRAPS (MINIMUM) OF APPROVED RUBBER TAPE AND 3 WRAPS (MINIMUM) OF APPROVED VINYL TAPE TO COVER SHARP WIRE ENDS AFTER THE CONNECTION IS COMPLETED.

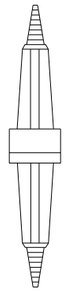
WHEN TRANSFORMER BASES ARE USED, ALL WIRING CONNECTIONS SHALL OCCUR WITHIN THE TRANSFORMER BASES.



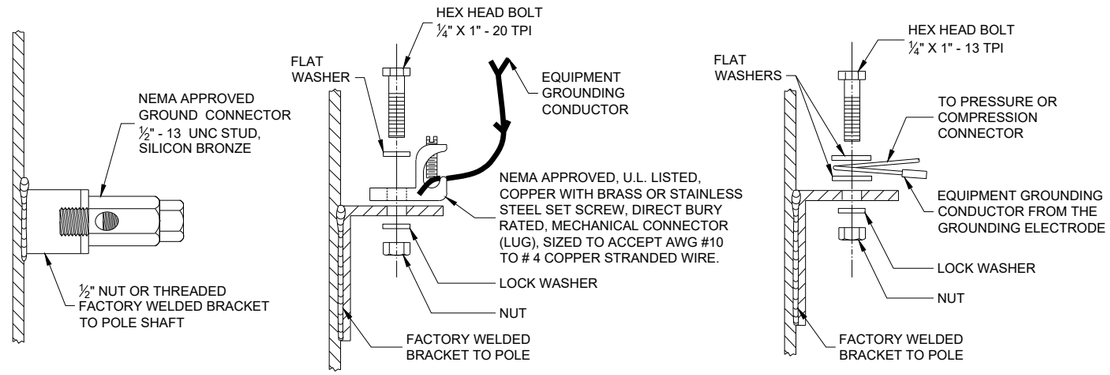
LIGHTING UNIT CODE
(TYPICAL)



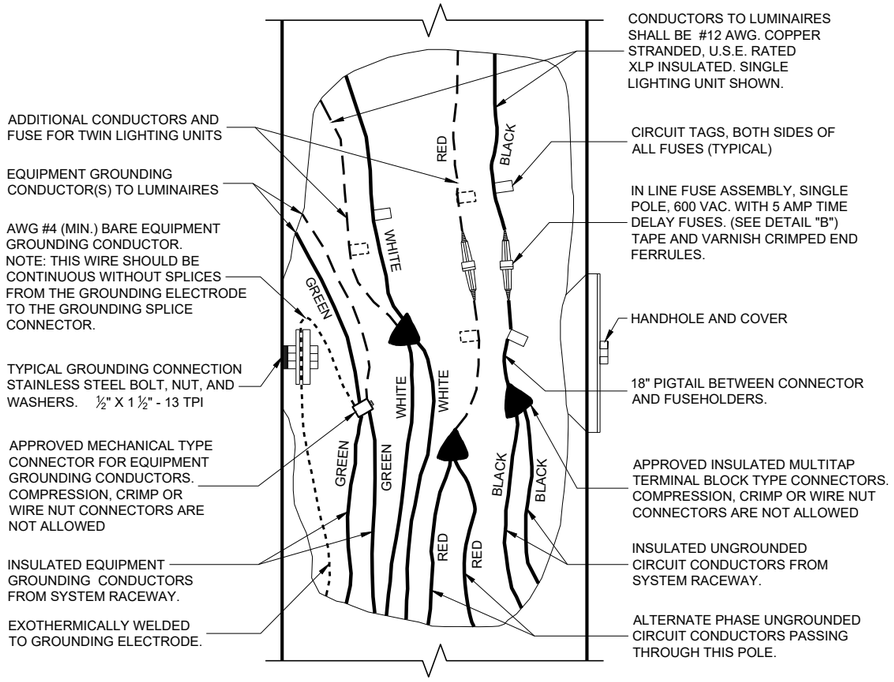
DETAIL "A"
BREAKAWAY DOUBLE POLE WITH WATERPROOF INSULATING BOOT



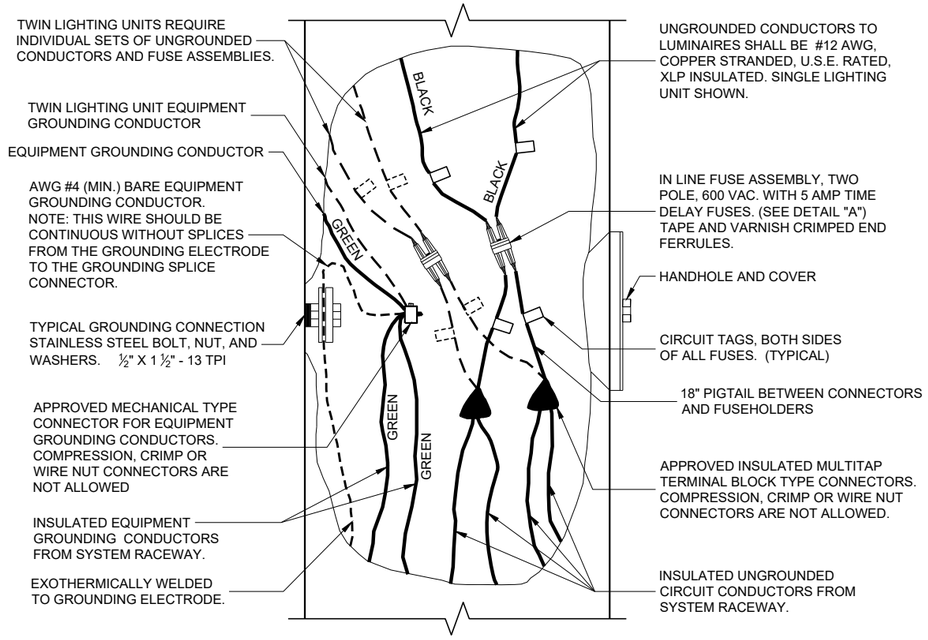
DETAIL "B"
BREAKAWAY SINGLE POLE WITH WATERPROOF INSULATING BOOT



TYPICAL GROUNDING CONNECTIONS
NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL



3 WIRE - 120, 240 OR 480 VAC (UNGROUNDED CONDUCTORS) WITH GROUNDING CONDUCTOR AND EQUIPMENT GROUNDING CONDUCTOR



2 WIRE - 240 OR 480 VAC (UNGROUNDED CONDUCTORS) WITH EQUIPMENT GROUNDING CONDUCTOR

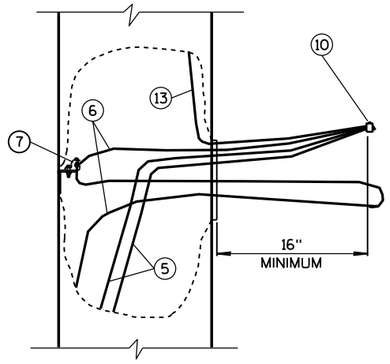
NON - FREEWAY LIGHTING UNIT POLE WIRING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

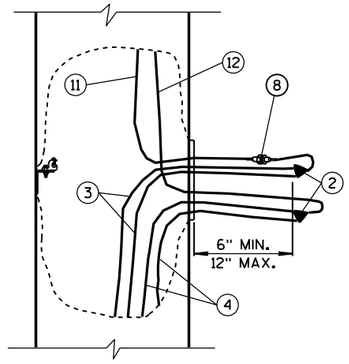
APPROVED
November 2018
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI

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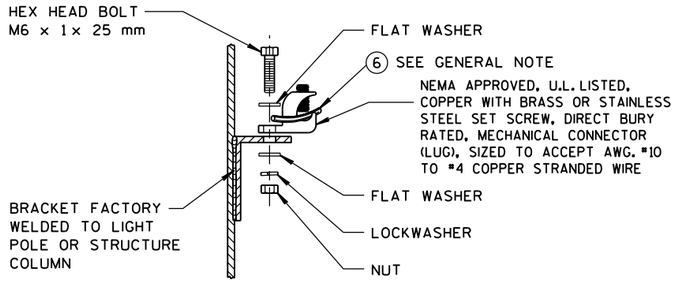


EQUIPMENT GROUNDING CONDUCTOR SLACK



UNGROUNDED CONDUCTOR SLACK (AND GROUNDED NEUTRAL SLACK IN GROUNDED NEUTRAL SYSTEM)

TYPICAL CONDUCTOR SLACK AT HANDHOLES



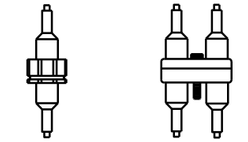
HANDHOLE GROUNDING LUG

(NUT, BOLT, WASHERS, AND LOCK WASHERS SHALL BE STAINLESS STEEL)

CONDUCTOR COLOR CODES

KEY	CONDUCTOR	COLOR
3	UNGROUNDED LINE WIRE	*
4	GROUNDED LINE WIRE	WHITE
5	SYSTEM GROUNDING LINE WIRE	GREEN
6	GROUNDING ELECTRODE CONDUCTOR	BARE
11	UNGROUNDED POLE WIRE	*
12	GROUNDED POLE WIRE	WHITE
13	EQUIPMENT GROUNDING POLE WIRE	GREEN

* FOLLOW COLOR CODING SHOWN IN THE PLANS. WHERE THE PLANS DO NOT SHOW COLOR CODING, USE BLACK FOR SINGLE LUMINAIRE POLES; BLACK AND RED FOR TWIN LUMINAIRE POLES.



FUSE ASSEMBLIES

GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN IN THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

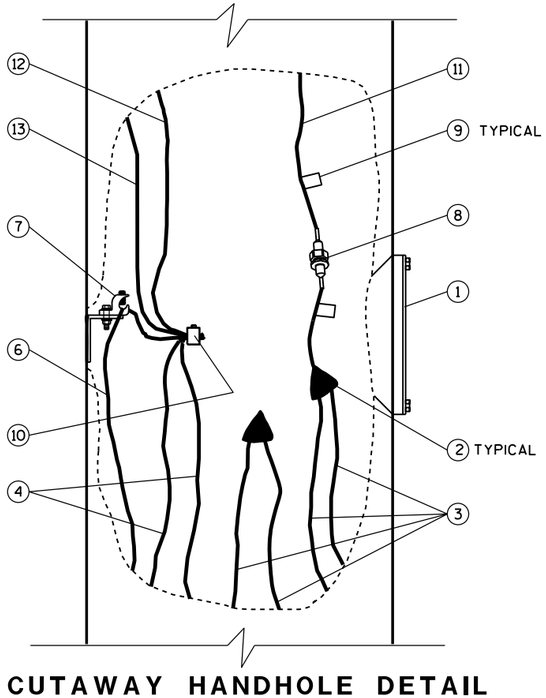
USE THIS DETAIL IN CONJUNCTION WITH THE ELECTRICAL DETAILS FOR THE APPLICATION, WHICH MAY BE A LIGHT POLE, SIGN BRIDGE, ETC.

THE GROUNDING ELECTRODE CONDUCTOR SHALL BE CONTINUOUS WITHOUT SPLICES FROM THE GROUNDING ELECTRODE THROUGH THE HANDHOLE GROUNDING LUG TO THE CONNECTOR.

THREE POLE WIRES ARE SHOWN FOR A SINGLE LUMINAIRE LIGHT POLE. THREE ADDITIONAL POLE WIRES REQUIRED FOR TWIN LUMINAIRE LIGHT POLES ARE OMITTED FROM THE DRAWING FOR CLARITY. IN THE TWIN POLE CASE, BUNDLE EACH SET OF THREE WIRES WITH A NYLON CABLE TIE.

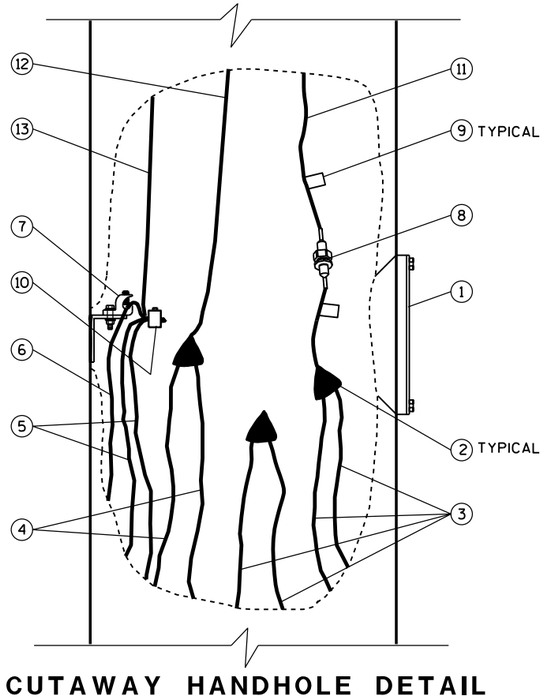
IN 3-PHASE SYSTEMS, THERE WILL BE ONE MORE UNGROUNDED LINE WIRE, WHICH IS OMITTED FROM THE DRAWING FOR CLARITY.

CIRCUIT TAGS SHALL BE INSTALLED ONLY WHERE REQUIRED IN THE SPECIAL PROVISIONS.



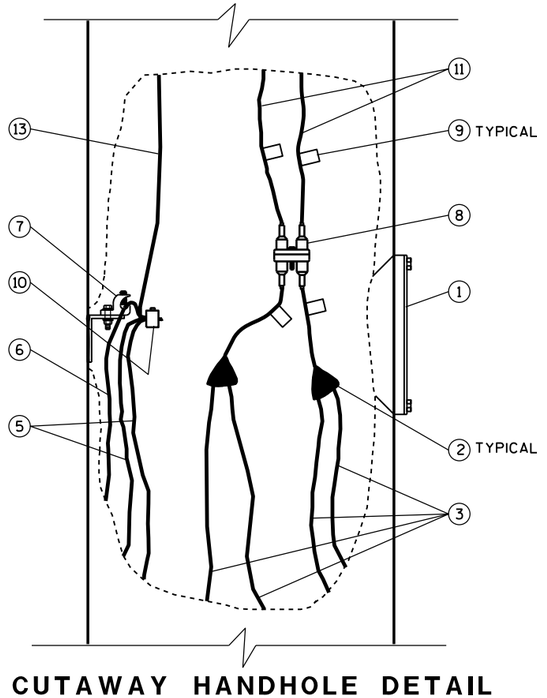
CUTAWAY HANDHOLE DETAIL

GROUNDED NEUTRAL SYSTEMS
1-Φ



CUTAWAY HANDHOLE DETAIL

ISOLATED NEUTRAL SYSTEMS
1-Φ SHOWN; 3-Φ WYE SIMILAR
(SEE GENERAL NOTE)



CUTAWAY HANDHOLE DETAIL

PHASE-TO-PHASE SYSTEMS
1-Φ SHOWN; 3-Φ DELTA SIMILAR
(SEE GENERAL NOTE)

NOTE: REQUIRED CONDUCTOR SLACK NOT SHOWN ON "CUTAWAY HAND HOLE" DETAILS FOR DRAWING CLARITY, SEE "TYPICAL CONDUCTOR SLACK AT HANDHOLES" ON THIS SHEET.

(1) HANDHOLE AND COVER
(2) INSULATED SPLICE
(3) UNGROUNDED LINE WIRE
(4) GROUNDED LINE WIRE
(5) SYSTEM GROUNDING LINE WIRE
(6) GROUNDING ELECTRODE CONDUCTOR
(7) HANDHOLE GROUNDING LUG
(8) FUSE ASSEMBLY, 1P OR 2P AS REQUIRED
(9) CIRCUIT TAG (SEE GENERAL NOTE)
(10) REVERSIBLE PRESSURE OR COMPRESSION GROUNDING CONNECTOR (NOT INSULATED)
(11) UNGROUNDED POLE WIRE
(12) GROUNDED POLE WIRE
(13) EQUIPMENT GROUNDING POLE WIRE

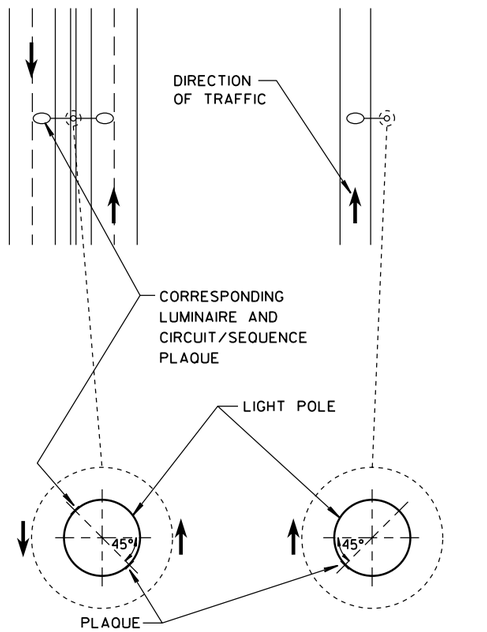
ELECTRICAL HANDHOLE WIRING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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S.D.D. 10 A 1-3



MEDIAN POLE SINGLE ARM POLE

LOCATION OF LIGHT POLE CIRCUIT/SEQUENCE PLAQUE

GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN IN THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PLAQUES SHALL BE INCIDENTAL TO ALL NEW INSTALLATIONS.

WHERE SHOWN IN THE PLANS, REPLACEMENT PLAQUES WILL BE MEASURED AND PAID SEPARATELY.

FASTEN TOP, CENTER AND BOTTOM OF PLAQUE TO POLE OR OTHER LOCATION AS FOLLOWS:

GALVANIZED STEEL SHAFT - STAINLESS STEEL POP RIVETS

A588 STEEL SHAFT - SHIM FOR DRAINAGE WITH STAINLESS WASHERS; FASTEN WITH STAINLESS SELF-TAPPING SCREWS

ALUMINUM SHAFTS - ALUMINUM POP RIVETS

MOUNTING HEIGHT SHALL BE APPROXIMATELY 5.0' ABOVE CURB OR SHOULDER. ADJUST IF IT IS KNOWN THAT REQUIRED TRAFFIC SIGNS WILL OBSTRUCT.

PLAQUE MATERIALS:

BASE - SHEET ALUMINUM, 0.060" THICK.

FACE - WHITE, SELF-ADHESIVE VINYL SHEETING, NON-RETRORFLECTIVE

LINES - BLACK, 1/2" WIDE, SELF-ADHESIVE

CHARACTERS - BLACK, SELF-ADHESIVE, SERIES "D", SIZE AS SHOWN

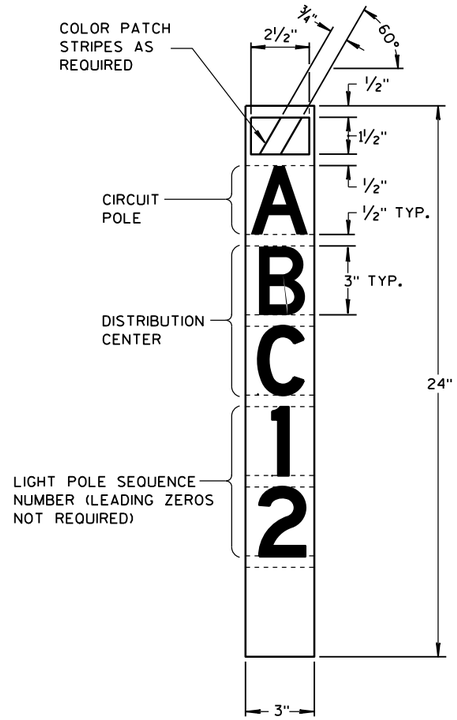
COLOR PATCHES - VARIOUS COLORS, SELF-ADHESIVE VINYL SHEETING

WITH THE APPROVAL OF THE ENGINEER, THE BASE MATERIAL MAY BE OMITTED AND THE FACE ADHERED DIRECTLY TO THE SURFACE, IN CASES SUCH AS SMOOTH, CLEAN ALUMINUM POLES.

ALTERNATIVE COMPUTER-GENERATED SIGN LETTERING MAY BE ACCEPTED IF THE ENGINEER FINDS IT TO BE EQUIVALENT.

COLOR PATCH CODE FOR HPS AND LED LUMINAIRES

HPS	LED	COLOR PATCH CODE
1000 WATT		NO PATCH
400 WATT	CATEGORY D	ORANGE
310 WATT		BLUE
250 WATT	CATEGORY C	ORANGE WITH WHITE STRIPE
200 WATT		RED
150 WATT	CATEGORY B	GREEN
100 WATT	CATEGORY A	BROWN
70 WATT	CATEGORY UDL	BROWN WITH WHITE STRIPE



LIGHT POLE CIRCUIT/SEQUENCE PLAQUE

6

S.D.D. 10 A 2-3

6

S.D.D. 10 A 2-3

IDENTIFICATION PLAQUES LIGHT POLES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

Feb. 2015 — DATE

/S/ Ahmet Demirbilek — STATE ELECTRICAL

FHWA

GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN IN THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

USE THIS DETAIL IN CONJUNCTION WITH THE DETAIL FOR ELECTRICAL HANDHOLE WIRING, SDD10A01.

USE TIME DELAY FUSE PER LUMINAIRE MANUFACTURER RECOMMENDATION.

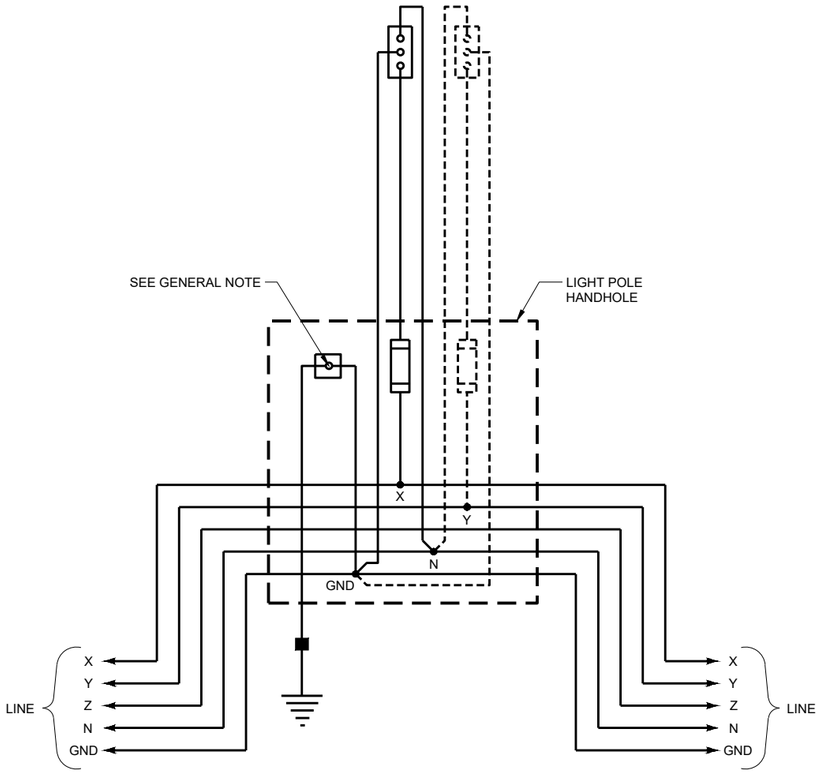
THE GROUNDING ELECTRODE CONDUCTOR SHALL BE CONTINUOUS WITHOUT SPLICES FROM THE GROUNDING ELECTRODE THROUGH THE HANDHOLD GROUNDING LUG TO THE CONNECTOR.

WIRING FOR SINGLE LUMINAIRE POLES IS SHOWN WITH SOLID LINES. WIRING FOR THE SECOND LUMINAIRE OF TWIN LUMINAIRE POLES IS SHOWN WITH DOTTED LINES.

THE PLANS WILL SHOW WHICH CIRCUIT LEG(S) ARE CONNECTED TO EACH INSTALLATION.

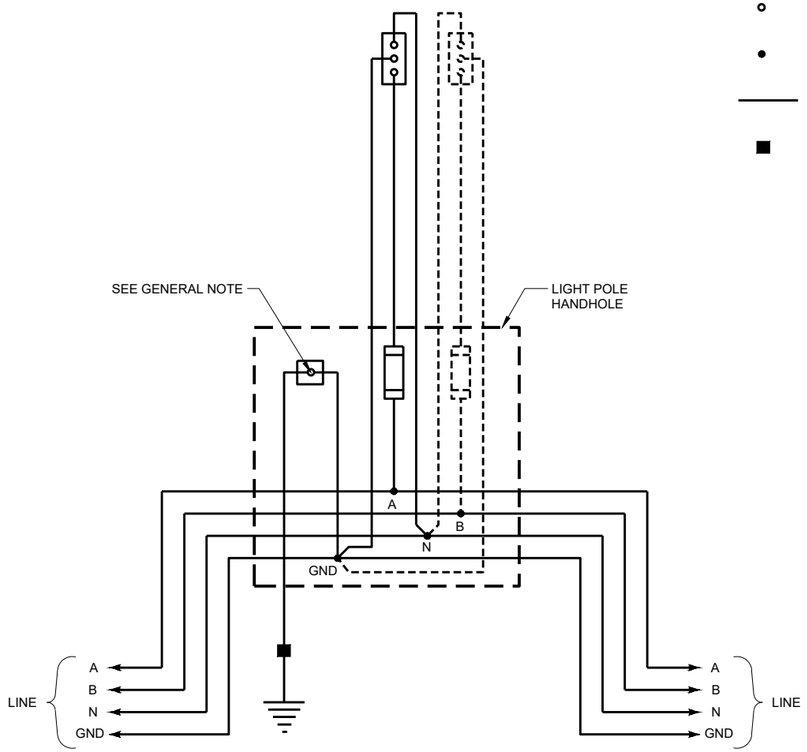
LEGEND

A,B,X,Y,Z	UNGROUNDED CIRCUIT CONDUCTORS
N	GROUNDED CIRCUIT CONDUCTORS
GND	EQUIPMENT GROUNDING CONDUCTOR
P	POLE (ELECTRICAL CIRCUIT)
ϕ	PHASE (ELECTRICAL CURRENT)
	HANDHOLE GROUND LUG
	SINGLE-POLE (1P) FUSE ASSEMBLY
	UNFUSED LUMINAIRE
	EQUIPMENT GROUNDING ELECTRODE
	TERMINAL
	SPLICE
	CONDUCTOR
	EXOTHERMIC WELD



TYPICAL WIRING DIAGRAM

ISOLATED NEUTRAL SYSTEM
3 - ϕ 208Y / 120VAC OR 480Y / 277VAC 4 WIRE



TYPICAL WIRING DIAGRAM

ISOLATED NEUTRAL SYSTEM
1 - ϕ 120 / 240VAC OR 240 / 480VAC 3 WIRE

ELECTRICAL DETAILS
GROUND MOUNT LIGHT POLES
ISOLATED NEUTRAL SYSTEM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI

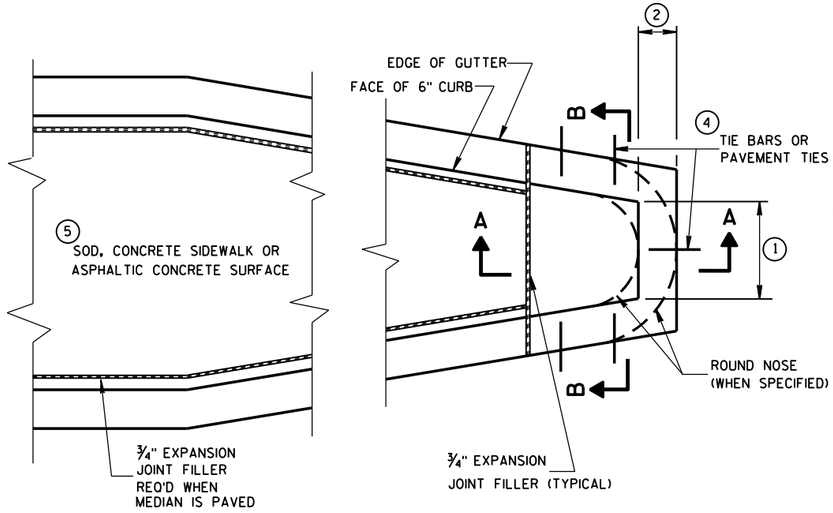
FHWA

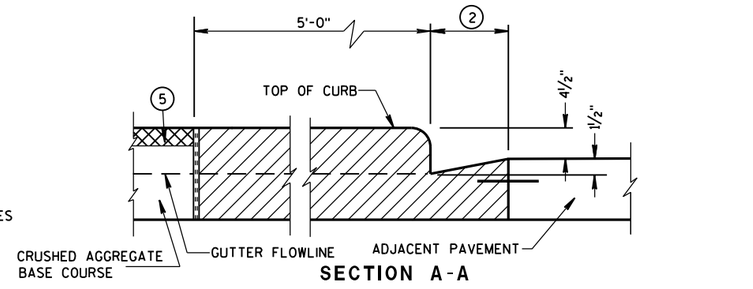
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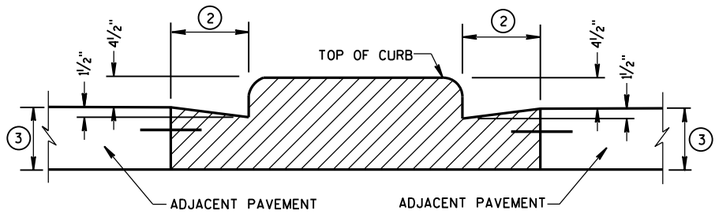
SDD 10A05 - 03

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SDD 10A05 - 03







CONCRETE MEDIAN BLUNT NOSE DETAIL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(1) SEE PLAN FOR MEDIAN NOSE WIDTH AND RADIUS (FOR ROUND NOSE ALTERNATE).

(2) WIDTH OF GUTTER TO MATCH EXISTING ADJACENT GUTTER OR AS SPECIFIED ELSEWHERE IN THE PLAN.

(3) DEPTH EQUAL TO ADJACENT PAVEMENT. ADJACENT PAVEMENT STRUCTURE DETAILS ARE SHOWN ON THE PLAN. TYPICAL OPTIONS ARE:

(1) NEW OR EXISTING CONCRETE PAVEMENT.

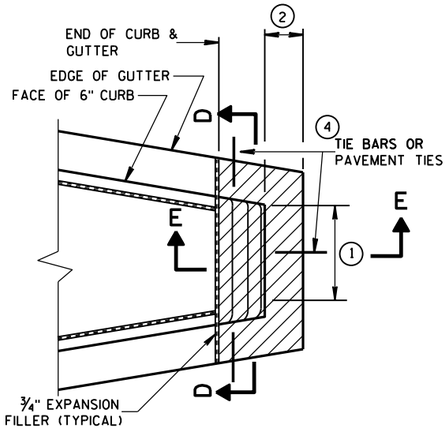
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

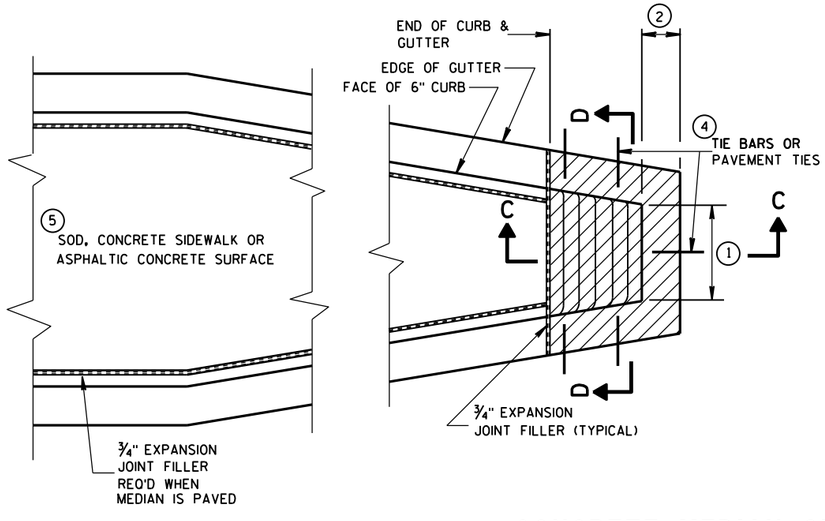
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

(4) TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.

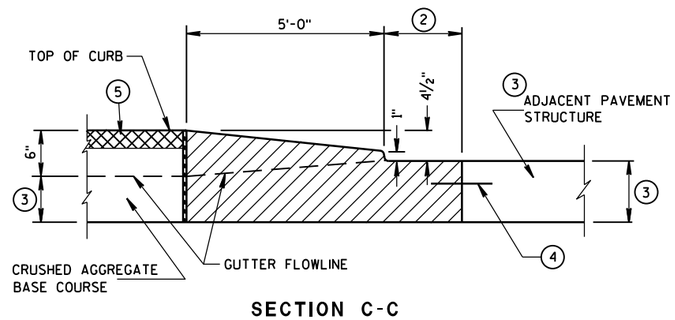
PAVEMENT TIES REQUIRED IN EXISTING CONCRETE BASE COURSE. PAVEMENT TIES SHALL BE NO. 6 X 1'-0" SPACED AT 3'-0" C-C INSTALLED ON A HORIZONTAL SKEW OF 6:1. THE DIRECTION OF SKEW SHALL ALTERNATE AFTER EVERY ONE OR TWO BARS.

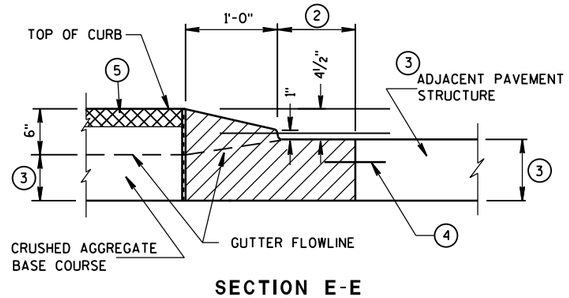
(5) SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.



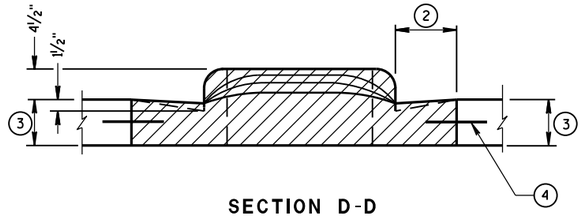


CONCRETE MEDIAN SLOPED NOSE TYPE 1





CONCRETE MEDIAN SLOPED NOSE TYPE 2



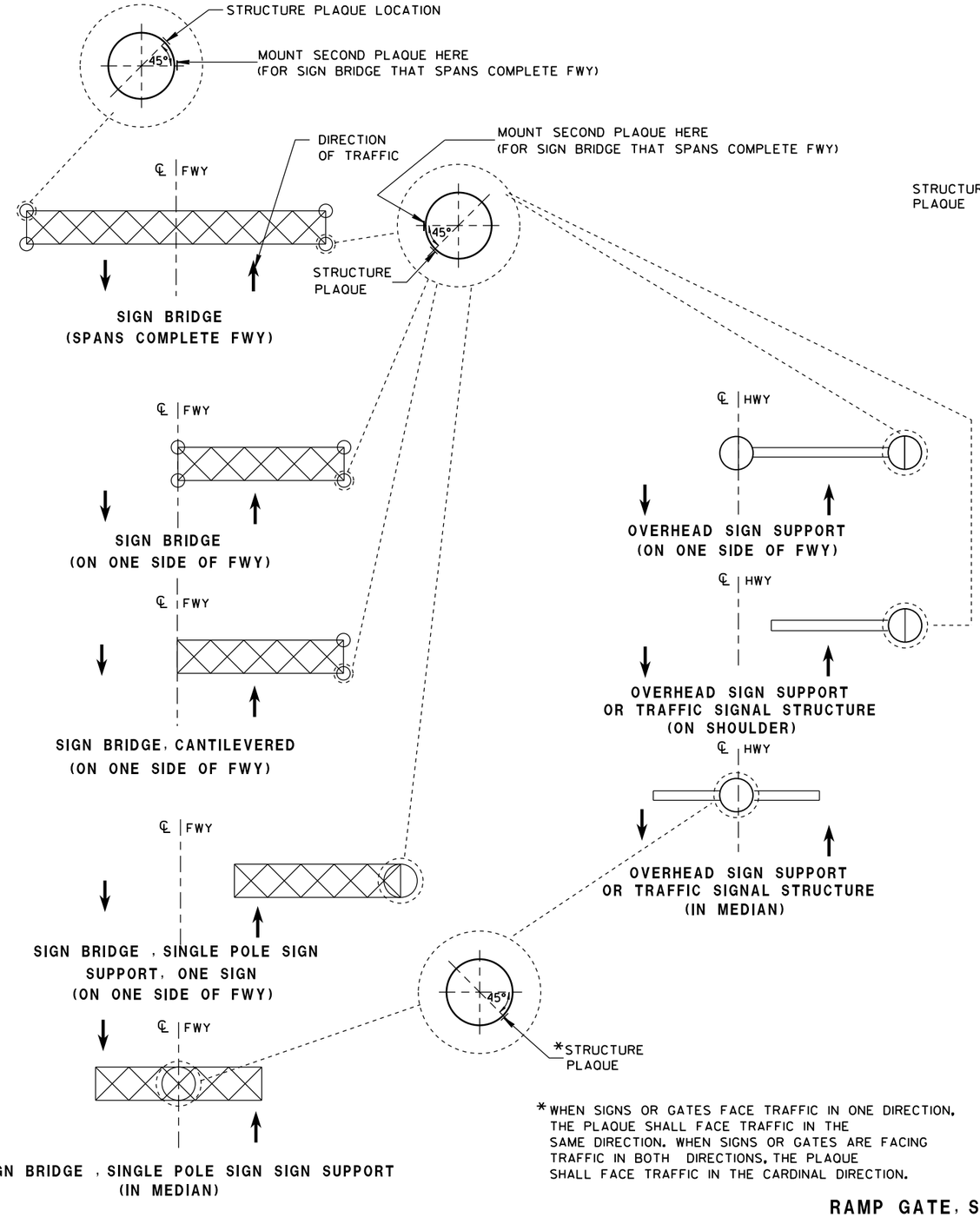
CONCRETE MEDIAN NOSE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/8/2006 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

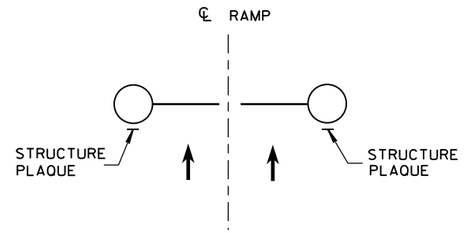
S.D.D. 11 B 2-2

S.D.D. 11 B 2-2

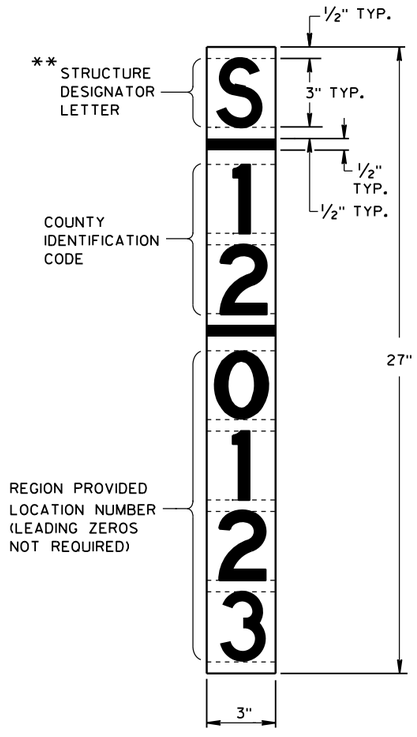


LOCATION OF RAMP GATE, SIGN BRIDGE, OVERHEAD SIGN SUPPORT & TRAFFIC SIGNAL STRUCTURE PLAQUES

*WHEN SIGNS OR GATES FACE TRAFFIC IN ONE DIRECTION, THE PLAQUE SHALL FACE TRAFFIC IN THE SAME DIRECTION. WHEN SIGNS OR GATES ARE FACING TRAFFIC IN BOTH DIRECTIONS, THE PLAQUE SHALL FACE TRAFFIC IN THE CARDINAL DIRECTION.



RAMP GATE
(ACROSS FWY ON-RAMP)



** LETTER "G" UTILIZED FOR RAMP GATES. LETTER "S" UTILIZED FOR SIGN BRIDGES, OVERHEAD SIGN SUPPORTS, AND TRAFFIC SIGNALS.

RAMP GATE, SIGN BRIDGE, OVERHEAD SIGN SUPPORT AND TRAFFIC SIGNAL STRUCTURE PLAQUE FOR SIGN BRIDGES AND OVERHEAD SIGN SUPPORT WHICH ARE NOT STRUCTURE MOUNTED

GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN IN THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PLAQUES SHALL BE INCIDENTAL TO ALL NEW INSTALLATIONS.

IF THE PROPOSED SIGN BRIDGE OR OVERHEAD SIGN SUPPORT IS REPLACING AN EXISTING SIGN BRIDGE OR OVERHEAD SIGN SUPPORT, A NEW IDENTIFICATION PLAQUE WILL BE REQUIRED.

FASTEN TOP, CENTER AND BOTTOM OF PLAQUE TO POLE OR OTHER LOCATION AS FOLLOWS:

GALVANIZED STEEL SHAFT - 3 STAINLESS STEEL POP RIVETS

A588 STEEL SHAFT - SHIM FOR DRAINAGE WITH STAINLESS WASHERS; FASTEN WITH STAINLESS SELF-TAPPING SCREWS

ALUMINUM SHAFTS - 3 ALUMINUM POP RIVETS

MOUNTING HEIGHT SHALL BE APPROXIMATELY 5.0' ABOVE CURB OR SHOULDER. ADJUST IF IT IS KNOWN THAT REQUIRED TRAFFIC SIGNS WILL OBSTRUCT.

PLAQUE MATERIALS:

BASE - SHEET ALUMINUM, 0.060" THICK.

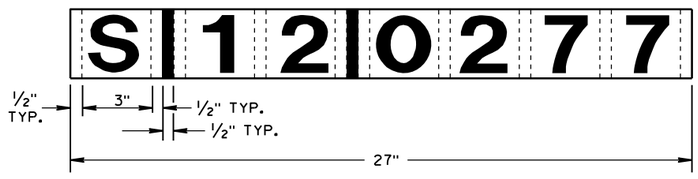
FACE - WHITE, SELF-ADHESIVE VINYL SHEETING, NON-RETROREFLECTIVE

LINES - BLACK, ½" WIDE, SELF-ADHESIVE

CHARACTERS:- BLACK, SELF ADHESIVE, SERIES "D", SIZE AS SHOWN.

FOR SIGN BRIDGES, STRUCTURE MOUNTED, THE STRUCTURE PLAQUE SHALL BE MOUNTED HORIZONTALLY AS SHOWN ON THE DRAWING. THE STRUCTURE PLAQUE SHALL BE MOUNTED HORIZONTALLY TO THE BACK OF THE SIGN, BETWEEN THE ALUMINUM EXTRUSIONS, NEAR THE TOP LEFT HAND CORNER OF THE SIGN. THE BASE MATERIAL SHALL BE OMITTED AND THE FACE ADHERED DIRECTLY TO THE ALUMINUM SURFACE. PRIOR TO ADHERING THE MATERIAL, THE ALUMINUM SURFACE SHALL BE SMOOTH, CLEAN AND DRY.

WHERE SIGN BRIDGE ILLUMINATION IS PROVIDED, THE STRUCTURE MUST ALSO HAVE A SIGN BRIDGE CIRCUIT PLAQUE AS SHOWN IN THE ELECTRICAL DETAILS.



IDENTIFICATION PLAQUE FOR SIGN BRIDGE, STRUCTURE MOUNTED

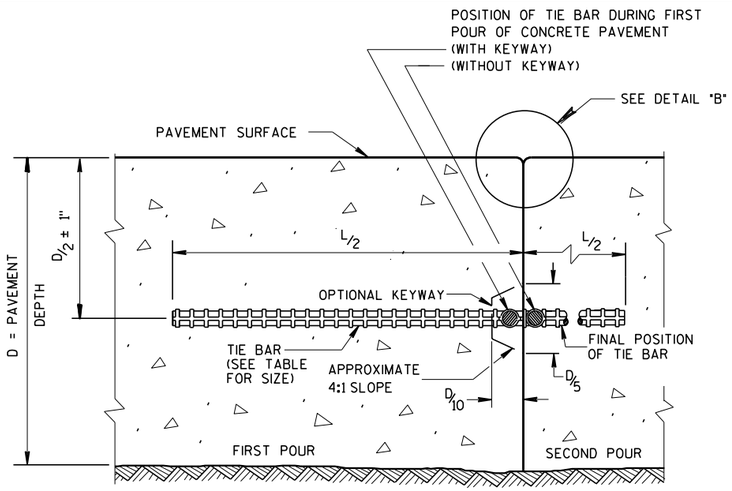
STRUCTURE IDENTIFICATION PLAQUES, RAMP GATES, SIGN BRIDGES, OVERHEAD SIGN SUPPORTS, & TRAFFIC SIGNALS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

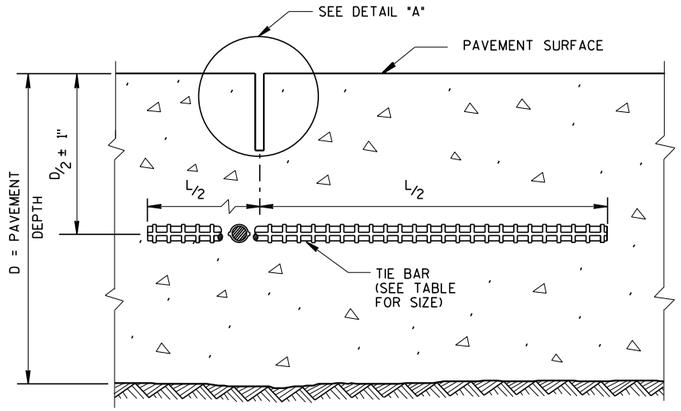
APPROVED
12/4/2012 DATE
/S/ Travis Feltes STATE TRAFFIC ENGINEER
FHWA

6

S.D.D. 12 A 4-3



CONSTRUCTION JOINT



SAWED JOINT

GENERAL NOTES

CREATE A LONGITUDINAL JOINT FOR PAVEMENT WIDTHS GREATER THAN 15 FEET.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

(1) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

(2) PAVEMENT THAT WAS IN PLACE PRIOR TO THE CONTRACT.

PLAN VIEW

SECTION A-A

LONGITUDINAL CONSTRUCTION JOINT TIE BARS ANCHORED INTO EXISTING PAVEMENT

DETAIL "A"

DETAIL "B"

DETAIL "C"

TIE BAR TABLE

PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 1/2"	NO. 4	30"	36"
≥ 10 1/2"	NO. 5	36"	36"
	NO. 4 *	30"	24" **

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

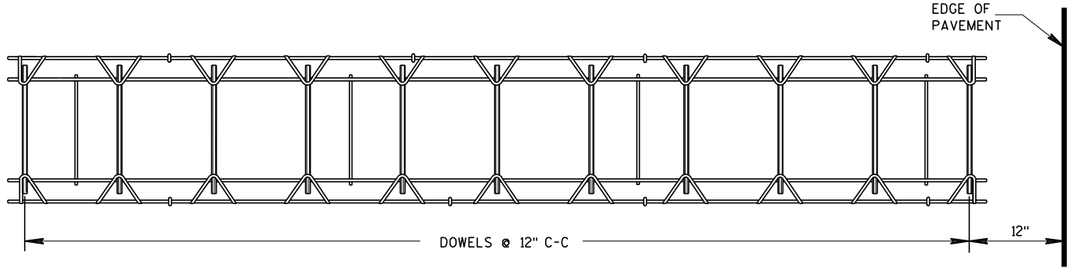
PLAN VIEW
SHOWING LOCATION OF TIE BARS

CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018
DATE
/S/ Peter Kemp PE
PAVEMENT SUPE
FHWA

6
S.D.D. 13 C 1-19

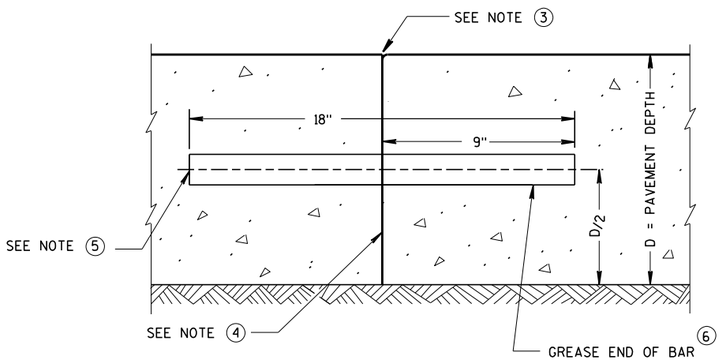


PLAN VIEW

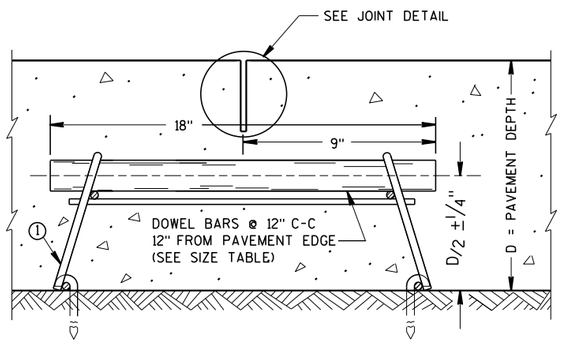


SIDE VIEW

CONTRACTION JOINT DOWEL ASSEMBLY ①



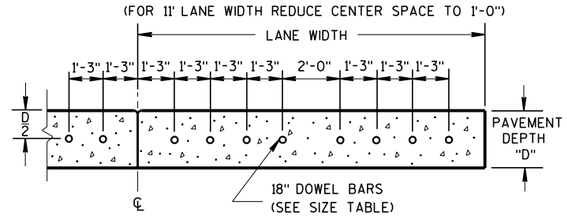
TRANSVERSE CONSTRUCTION JOINT



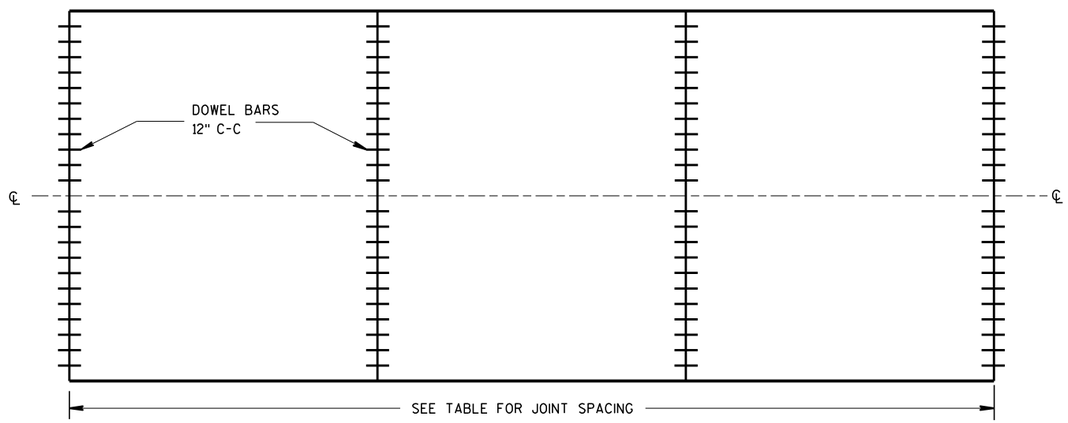
DOWELED CONTRACTION JOINT

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
5 ½", 6", 6 ½"	NONE	12'
7", 7 ½"	1"	14'
8", 8 ½"	1 ¼"	15'
9", 9 ½"	1 ¼"	15'
10" & ABOVE	1 ½"	15'



DRILLED DOWEL BAR CONSTRUCTION JOINT ⑦



CONTRACTION JOINT LOCATIONS

GENERAL NOTES

CONTRACTION JOINTS

CONSTRUCT TRANSVERSE CONTRACTION JOINTS NORMAL TO THE CENTERLINE. SHOW THE LOCATION OF CONTRACTION JOINTS THROUGH INTERSECTIONS ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

FOR PAVEMENT SLABS OF VARYING WIDTHS, LOCATE THE OUTER MOST DOWEL BAR SO THAT THE CENTER OF THE BAR IS A MINIMUM OF 6 INCHES AND A MAXIMUM OF 18 INCHES FROM THE LONGITUDINAL JOINT AND THE FREE EDGE OF PAVEMENT.

CONSTRUCTION JOINTS

LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.

① OBTAIN THE ENGINEER'S APPROVAL FOR THE USE OF ALTERNATIVE DESIGNS OF THE DOWEL ASSEMBLY. USE MECHANICAL DOWEL BAR INSERTERS OR DOWEL ASSEMBLIES WHEN CONSTRUCTING CONTRACTION JOINTS.

② SECURE BASKETS WITH ANCHORS TO HOLD DOWEL BARS IN THE CORRECT POSITION AND ALIGNMENT. TYPE, LOCATION, NUMBER AND LENGTH OF ANCHORS ARE DEPENDENT UPON FIELD CONDITIONS.

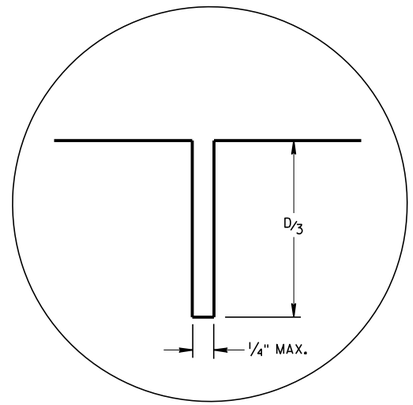
③ FORM OR SAW CONSTRUCTION JOINTS. PROVIDE A ¼-INCH RADIUS AT FORMED JOINTS.

④ PROVIDE A SMOOTH VERTICAL FACE FOR THE ENTIRE DEPTH OF THE PAVEMENT WHEN FORMING CONSTRUCTION JOINTS.

⑤ INSTALL DOWEL BARS AT CONSTRUCTION JOINTS BY FORMING OR DRILLING. INSTALL FORMED DOWEL BARS 12 INCHES C-C AND 12 INCHES FROM PAVEMENT EDGE. REMOVE EXCESS CONCRETE FROM THE FREE END OF THE DOWEL BAR IF DOWEL BARS ARE FORMED THROUGH A HEADER BOARD. INSTALL DRILLED DOWEL BARS ACCORDING TO *DRILLED DOWEL BAR CONSTRUCTION JOINT* DETAIL.

⑥ APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.

⑦ ANCHOR DOWEL BARS INTO DRILLED HOLES WITH AN EPOXY. MAXIMUM DRILLED HOLE SIZE IS ⅛-INCH GREATER THAN DOWEL BAR DIAMETER, 9 INCHES IN LENGTH.



JOINT DETAIL

URBAN DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

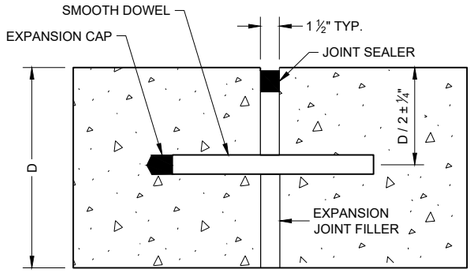
APPROVED
March 2018
DATE

/S/ Peter Kemp P.E.
PAVEMENT SUP

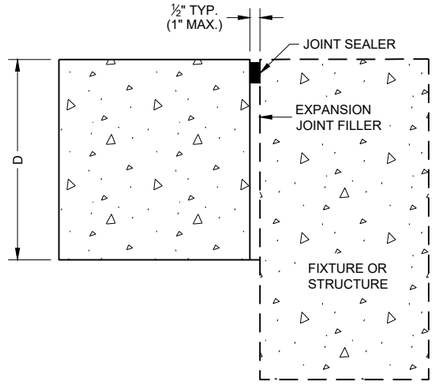
FHWA

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S.D.D. 13 C 13-9



DOWELED TRANSVERSE (1)



UNTIED - LONGITUDINAL

EXPANSION JOINTS

TIE BAR TABLE

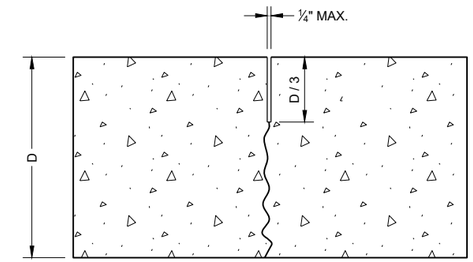
PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 ½"	NO. 4	30"	36"
≥ 10 ½"	NO. 5	36"	36"
	NO. 4 *	30"	24" **

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

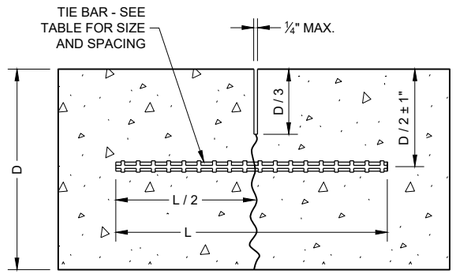
** CONFORM TO 15" MINIMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

GENERAL NOTES

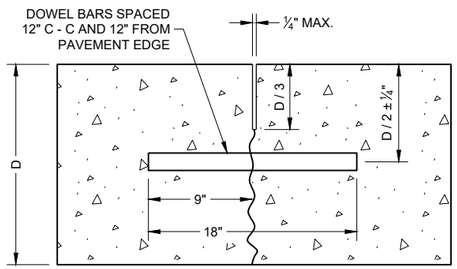
1. USE DOWELED EXPANSION JOINTS ON SIDE ROADS AT INTERSECTIONS (TO ISOLATETHE SIDE ROAD FROM THE THROUGH STREET) IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH.
2. SPACE CONTRACTION JOINTS IN ACCORDANCE WITH SDD 13C4, 13C11 OR 13C13.
3. LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.
4. CONSTRUCTION JOINTS CAN BE FORMED OR SAWED.
5. IF JOINT IS FORMED, PROVIDE A ¼" RADIUS.
6. ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.



UNDOWELED TRANSVERSE

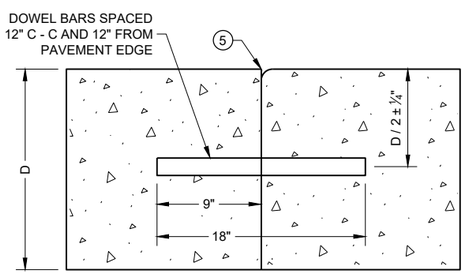


TIED LONGITUDINAL

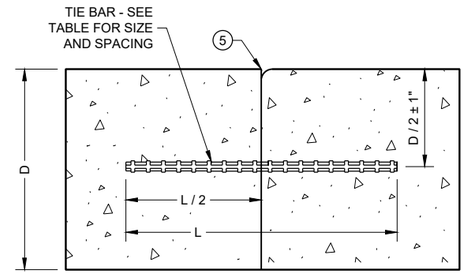


DOWELED TRANSVERSE

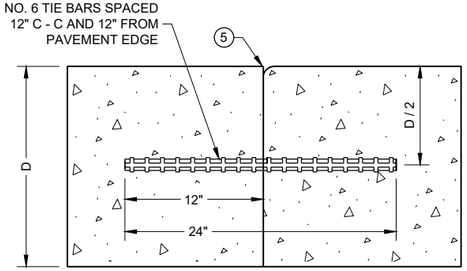
CONTRACTION JOINTS (2)



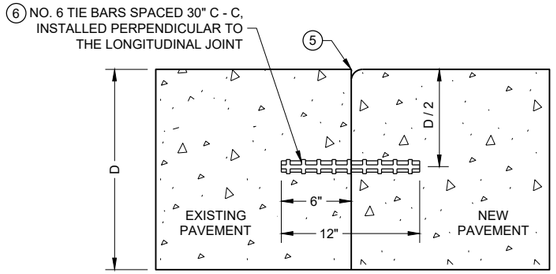
DOWELED TRANSVERSE (3)



TIED LONGITUDINAL



TIED TRANSVERSE (3)
(FOR USE ON NON-DOWELED PAVEMENTS ONLY)



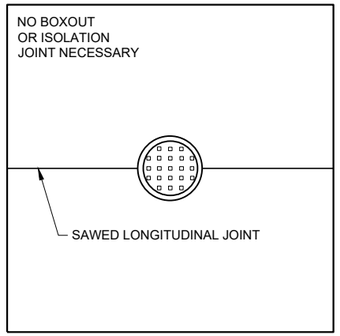
TIED LONGITUDINAL TO EXISTING

CONSTRUCTION JOINTS (4)

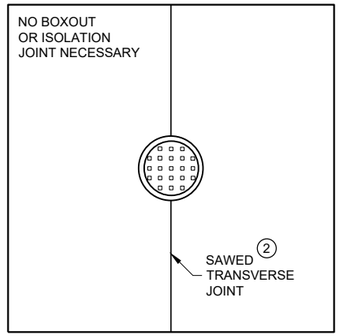
CONCRETE PAVEMENT JOINT TYPES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

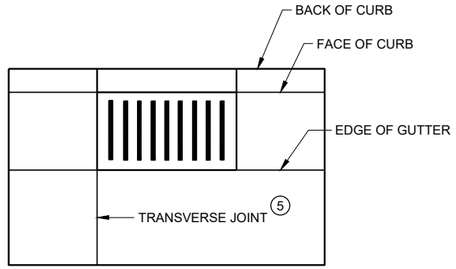
6
SDD 13C18 - 07c



MANHOLE WITH LONGITUDINAL JOINT



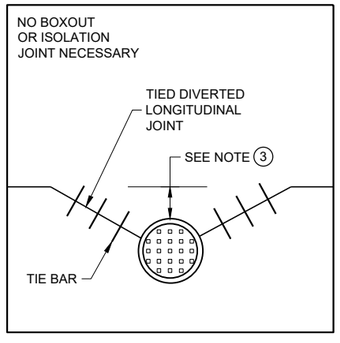
MANHOLE WITH TRANSVERSE JOINT



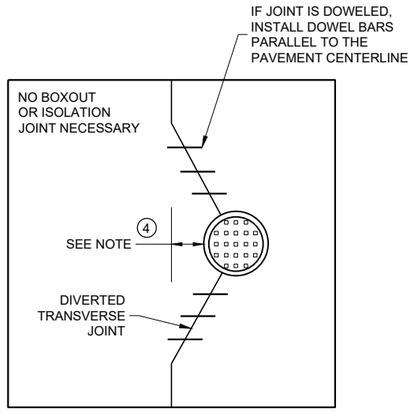
INLET WITH TRANSVERSE JOINT

GENERAL NOTES

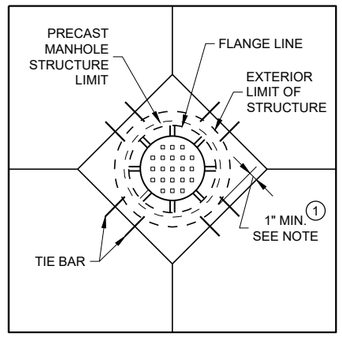
1. USE BOXOUTS WHEN UTILITY STRUCTURE IS IN THE PATH OF CONSTRUCTION JOINTS. PROVIDE A 1 FOOT MINIMUM CLEARANCE BETWEEN THE EXTERIOR LIMIT OF THE STRUCTURE TO THE DIAMOND BOXOUT.
2. ADJUST TRANSVERSE JOINT TO INTERSECT MANHOLE IF POSSIBLE.
3. IF DISTANCE BETWEEN THE LONGITUDINAL JOINT AND THE EDGE OF MANHOLE IS 2 FEET OR LESS, DIVERT THE LONGITUDINAL JOINT AT A 2:1 TAPER RATE TO THE CENTER OF THE MANHOLE. IF THE DISTANCE IS GREATER THAN 2 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REINFORCEMENT REBAR AROUND THE MANHOLE.
4. IF THE DISTANCE FROM THE EDGE OF THE MANHOLE TO THE NEAREST TRANSVERSE JOINT IS LESS 4 FEET OR LESS, REDIRECT JOINT TO INTERSECT THE CENTER OF THE MANHOLE. IF DISTANCE IS GREATER THAN 4 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REINFORCEMENT REBAR AROUND THE MANHOLE.
5. ALIGN TRANSVERSE JOINT WITH ONE EDGE OF INLET WHEN PRACTICAL.



MANHOLE WITH DIVERTED LONGITUDINAL CONTRACTION JOINT



MANHOLE WITH DIVERTED TRANSVERSE CONTRACTION JOINT



DIAGONAL MANHOLE BOXOUT FOR CONSTRUCTION JOINTS

CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Peter Kemp P.E.
PAVEMENT SUPERVIS

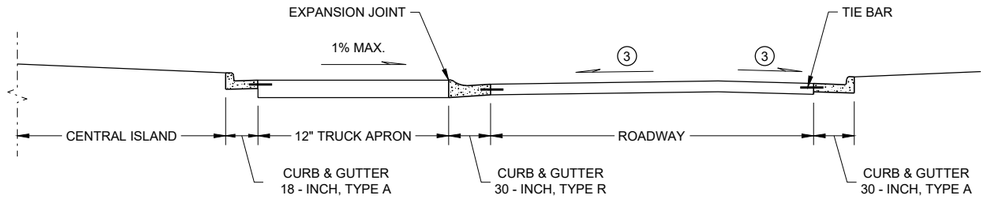
FHWA

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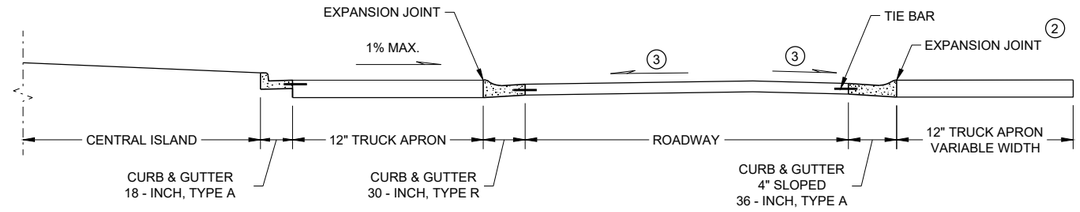
SDD13C18 - 07d

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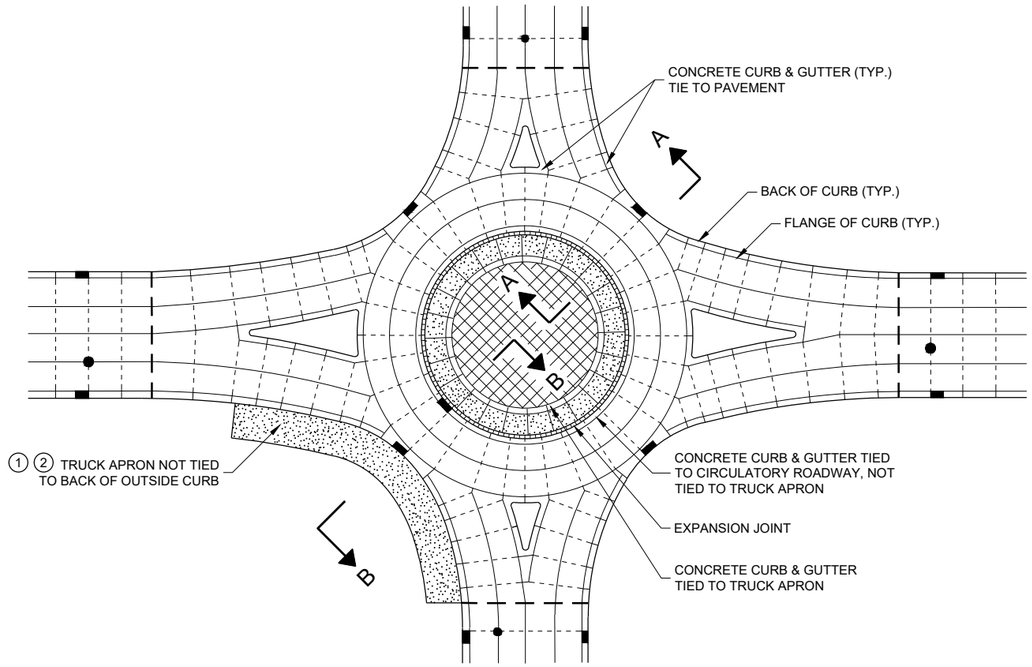
SDD13C18 - 07d



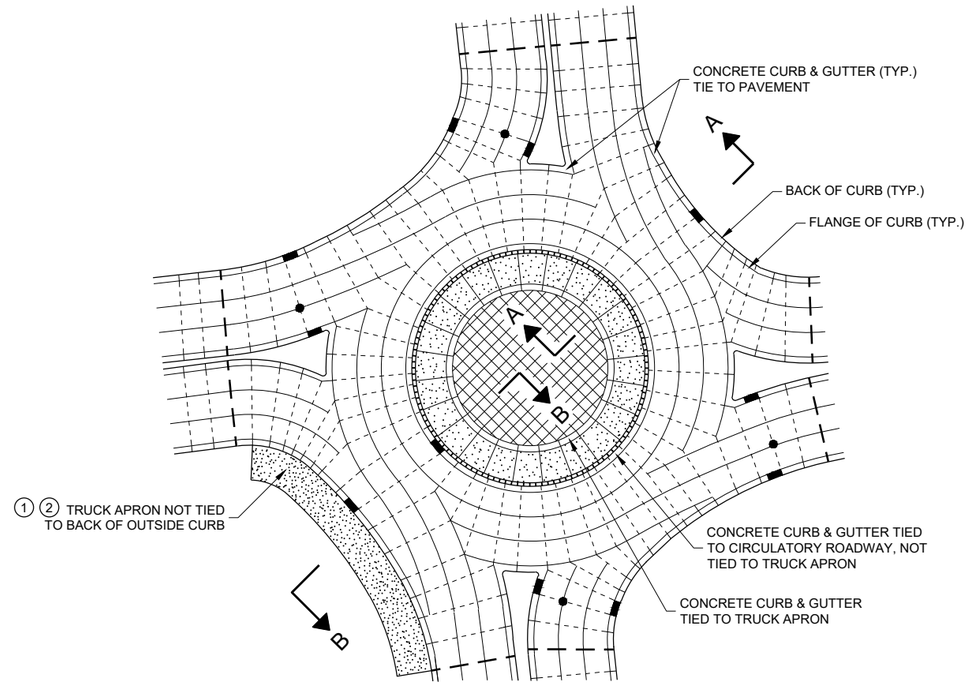
SECTION A - A



SECTION B - B



ISOLATED CIRCLE JOINT LAYOUT FOR ROUNDABOUTS



PINWHEEL JOINT LAYOUT FOR ROUNDABOUTS

GENERAL NOTES

MAXIMUM JOINT SPACING IS IN ACCORDANCE WITH THE TABLE SHOWN ON SDD 13C18 - SHEET "a"

USE EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION 415.

DO NOT DOWEL OR TIE THE TRUCK APRON TRANSVERSE JOINTS.

(1) DESIGNER DETERMINES SIZE AND LOCATION(S) OF TRUCK APRON TO ACCOMODATE TRACKING OF OVERSIZE / OVERWEIGHT VEHICLES.

(2) TIE THE OUTSIDE TRUCK APRON TO THE BACK SIDE OF CURB ONLY WHEN ENTIRE TRUCK APRON IS LESS THAN 3 FEET.

(3) CONFORM TO PLAN CONSTRUCTION DETAILS FOR CIRCULATORY ROADWAY CROSS SLOPE.

LEGEND

- DOWELED JOINT
- TIED JOINT
- EXPANSION JOINT
- POTENTIAL DOWELED EXPANSION JOINT
- TRUCK APRON
- CENTRAL ISLAND
- UTILITY STRUCTURES

CONCRETE PAVEMENT JOINTING AND STEEL REINFORCEMENT IN ROUNDABOUTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Peter Kemp P.E.
PAVEMENT SUPERVIS

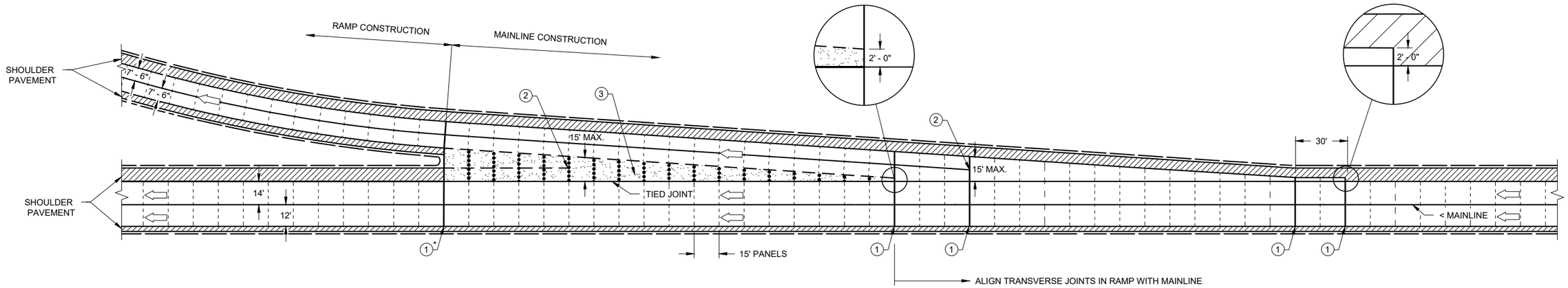
FHWA

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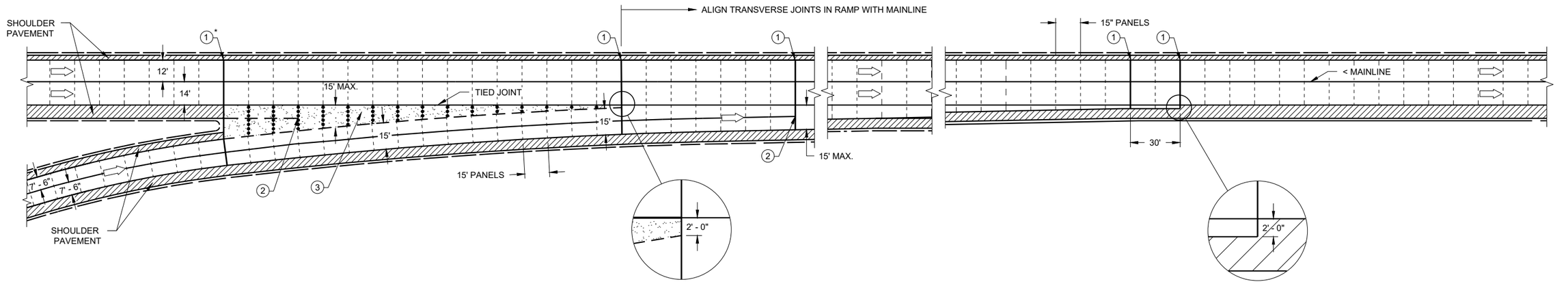
SDD 13C18 - 07e

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SDD 13C18 - 07e



DECELERATION LANE



ACCELERATION LANE

GENERAL NOTES

PAVEMENT AND BASE THICKNESS, PANEL LENGTHS, JOINTS AND REINFORCEMENT FOR THE DECELERATION AND ACCELERATION LANES, INCLUDING TAPERS, SHALL BE THE SAME AS THE MAINLINE, EXCEPT WHERE OTHERWISE NOTED.

ALL REINFORCEMENT BARS SHALL BE EPOXY COATED CONFORMING TO SUBSECTION 505.2.6 OF THE STANDARD SPECIFICATIONS.

LANE AND SHOULDER WIDTHS MAY VARY FROM SHOWN. SEE CONSTRUCTION PLANS FOR ACTUAL PROPOSED WIDTHS.

(1) CRITICAL TRANSVERSE JOINT LOCATIONS AT PAVEMENT WIDTH CHANGES. ((1)* IS NOT A CRITICAL TRANSVERSE JOINT WHEN ASPHALTIC GORE IS INSTALLED).

(2) STOP LONGITUDINAL JOINT WITH CORE HOLE (2" TYP.) WHEN IT MEETS THE FIRST TRANSVERSE JOINT LESS THAN 15' WIDE OR STOP LONGITUDINAL JOINT WHEN IT MEETS 2' AWAY FROM THE TIED JOINT OF THE MAINLINE.

(3) DISREGARD THE JOINT DETAILS IN AND AROUND THE GORE WHEN ASPHALTIC GORE IS INSTALLED.

LEGEND

- DOWELED JOINT
- UNDOWELED JOINT
- TIED JOINT
- UNTIED JOINT
- GORE
- DIRECTION OF TRAVEL

CONCRETE PAVEMENT JOINTING ACCELERATION/ DECELERATION LANE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Peter Kemp P.E.
ROADWAY STANDARDS DEVE ENGINEER

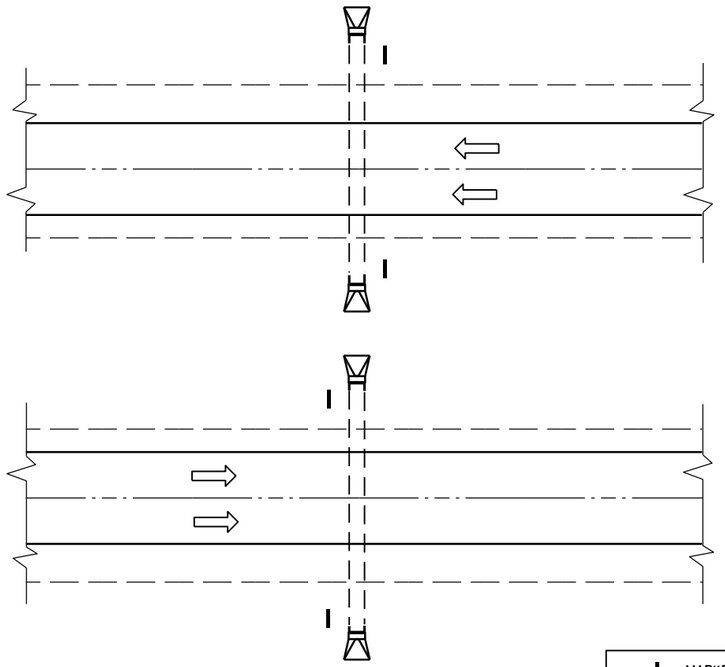
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SDD 13C18 - 07g

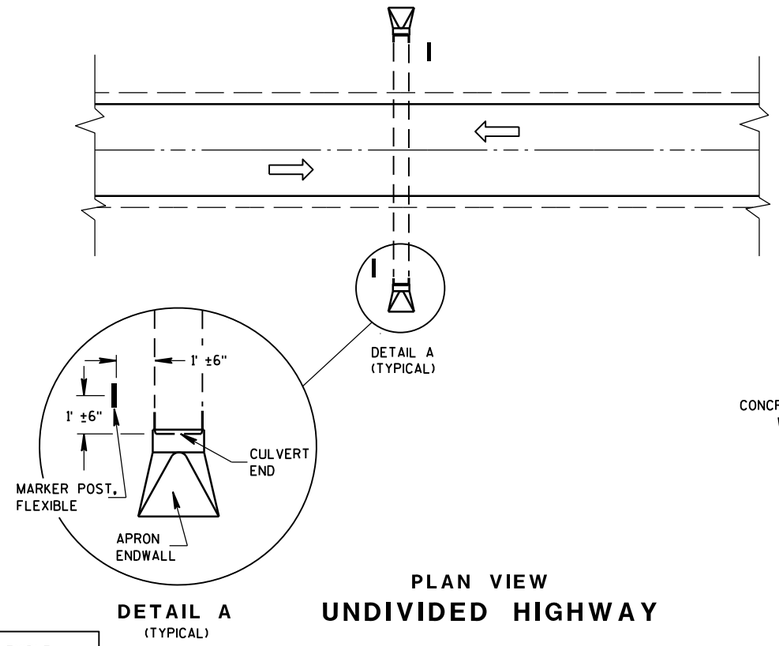
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SDD 13C18 - 07g



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

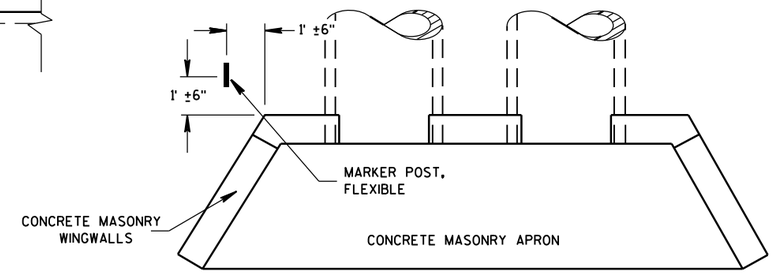
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

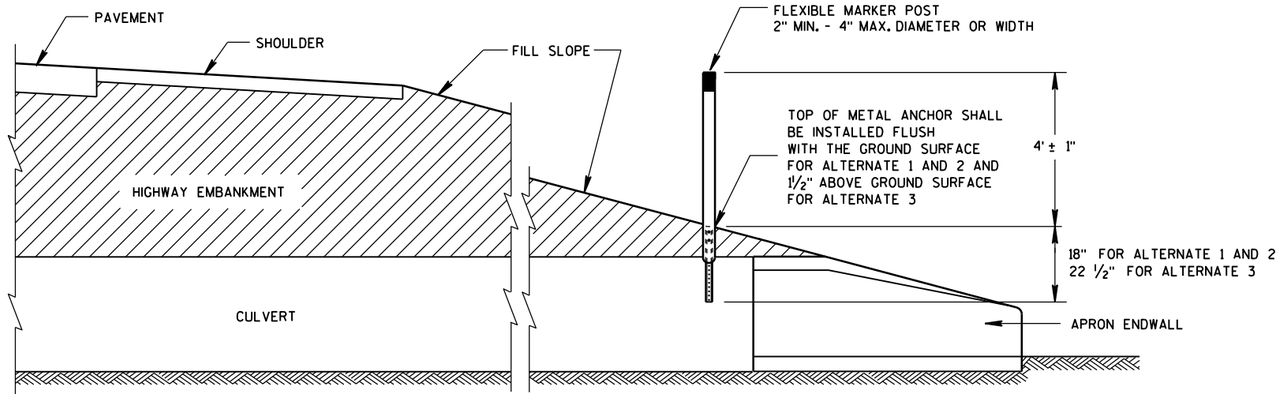
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

FLEXIBLE MARKER POST LOCATION



CROSS SECTION

FLEXIBLE MARKER POST

FLEXIBLE MARKER POST
FOR CULVERT END

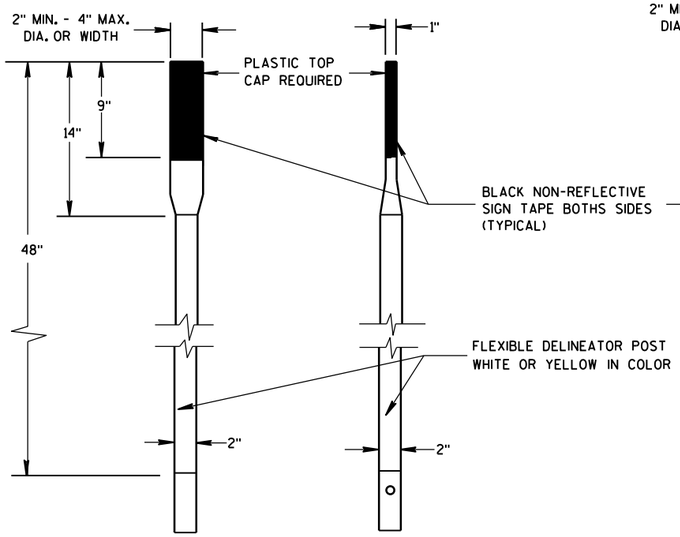
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

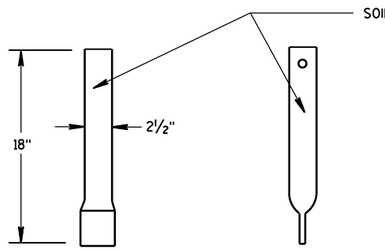
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S.D.D. 15 A 3-2a

6

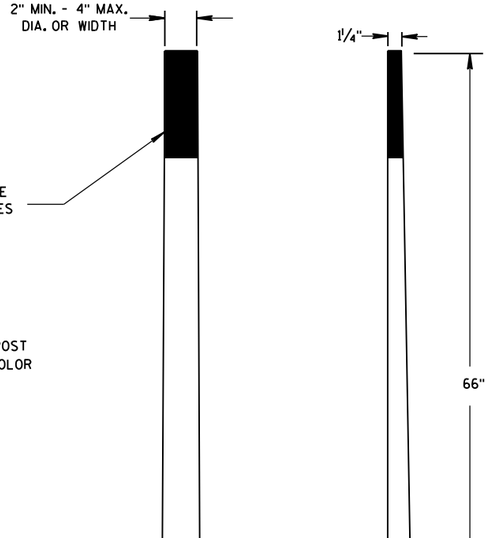
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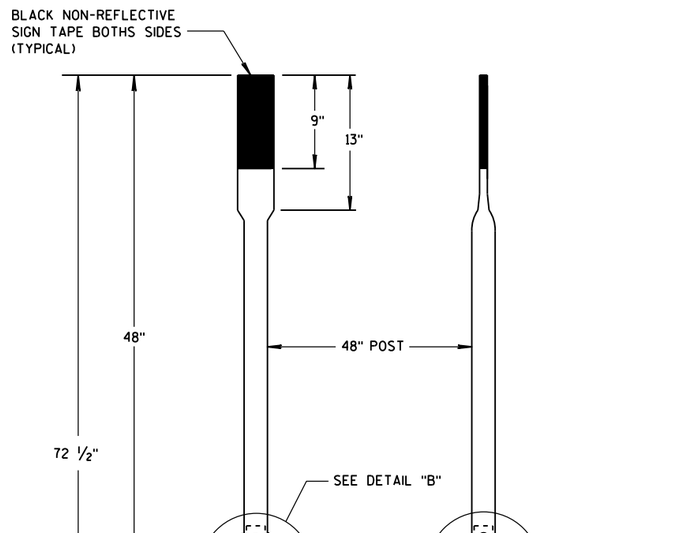
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

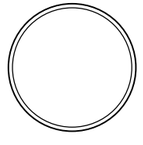
ALTERNATE 2



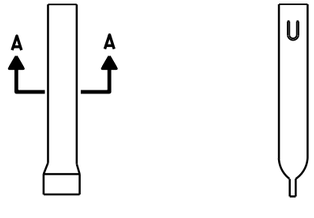
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POSTS

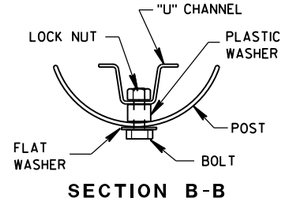


SECTION A-A

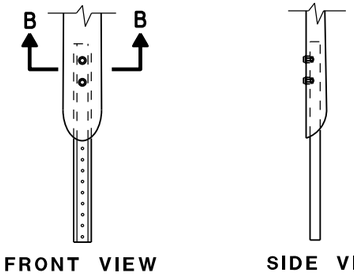


FRONT VIEW SIDE VIEW

ALTERNATE 1

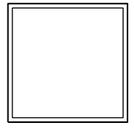


SECTION B-B

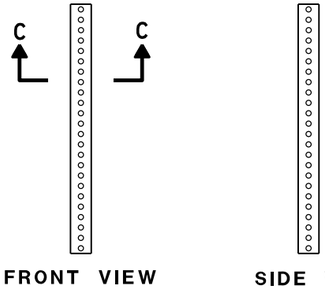


FRONT VIEW SIDE VIEW

ALTERNATE 2



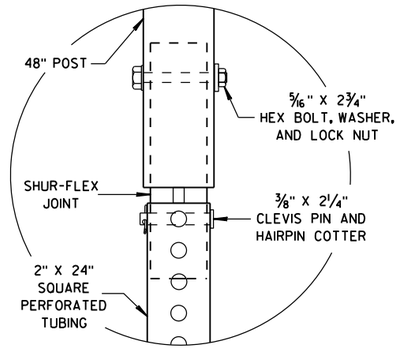
SECTION C-C



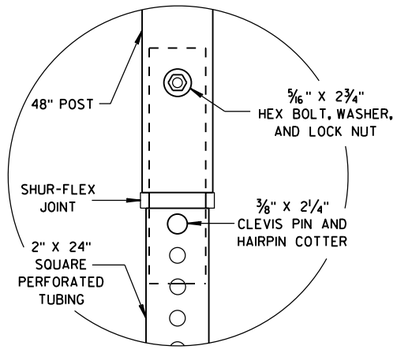
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS



DETAIL B



DETAIL C

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

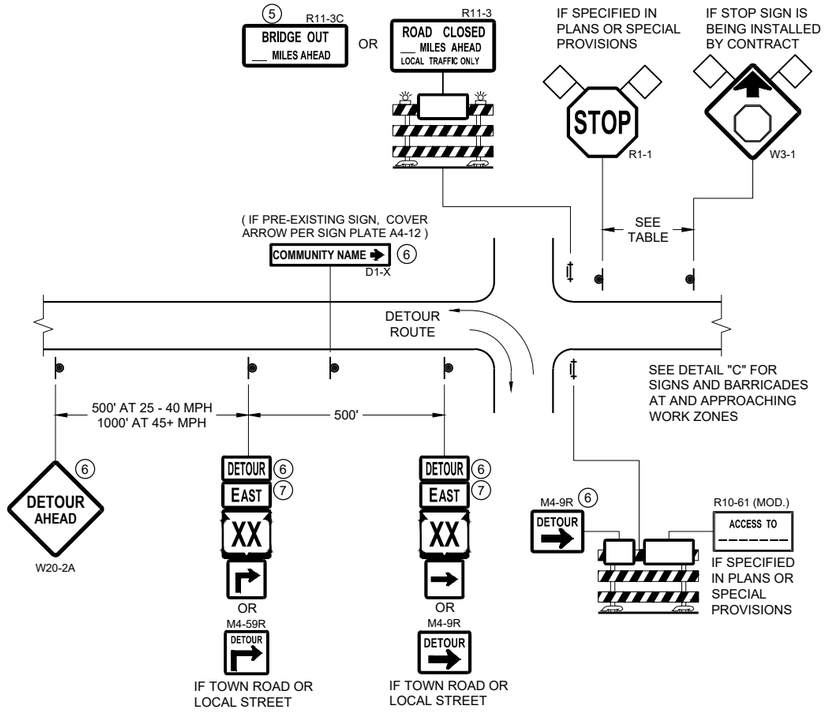
APPROVED
10/1/2012 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

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S.D.D. 15 A 3-2b

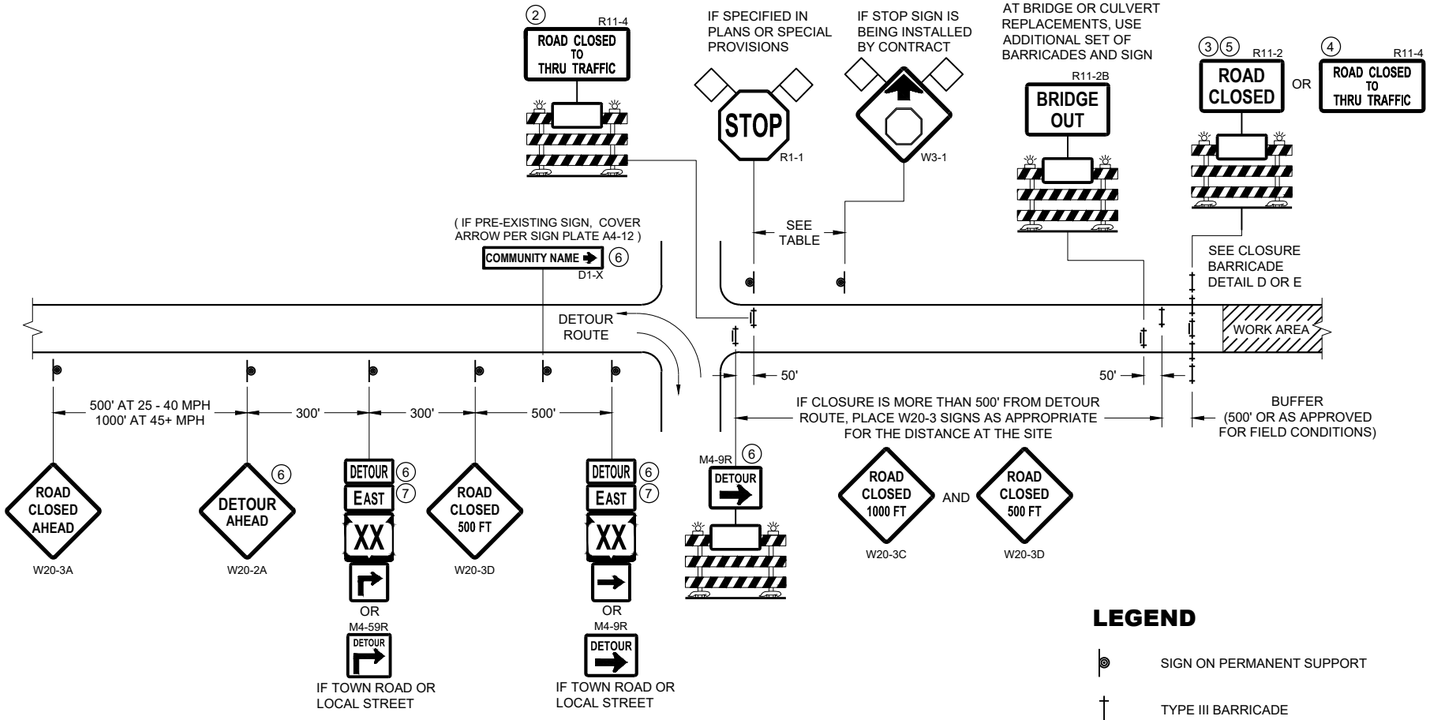
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S.D.D. 15 A 3-2b



DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN OR EQUAL TO ½ □ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN ½ □ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)

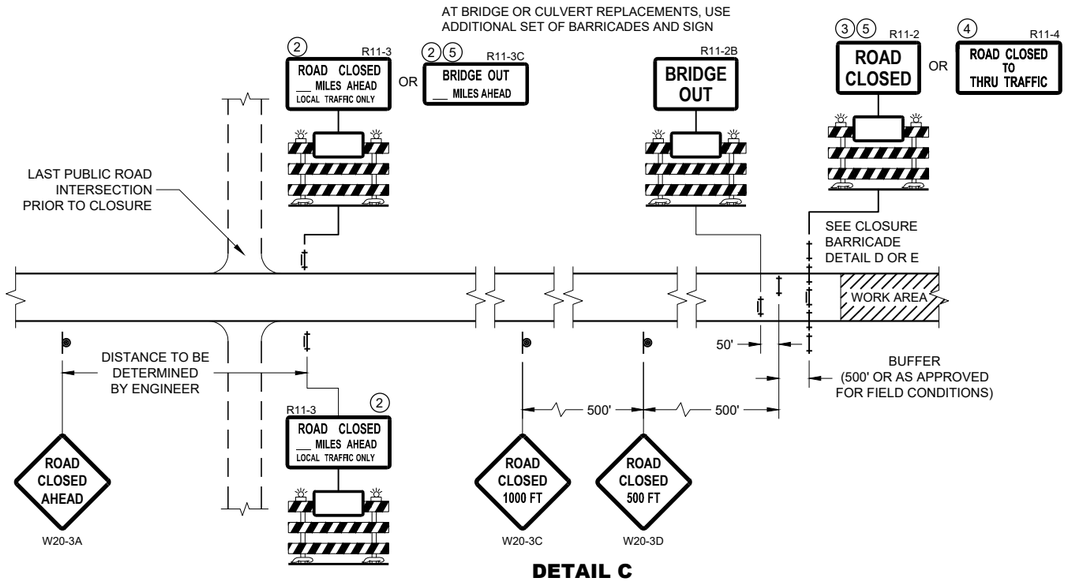
SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

SEE SDD 15C2-SHEET "b"
FOR GENERAL NOTES
AND FOOTNOTES ① THROUGH ⑦

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- FLAGS, 16" X 16" MIN. (ORANGE)

DETOUR M4 - 8
EAST M3 - X
XX M1 - 4 OR XX M1 - 6 OR COUNTY X M1 - 5A
M05 - 1 OR M06 - 1



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

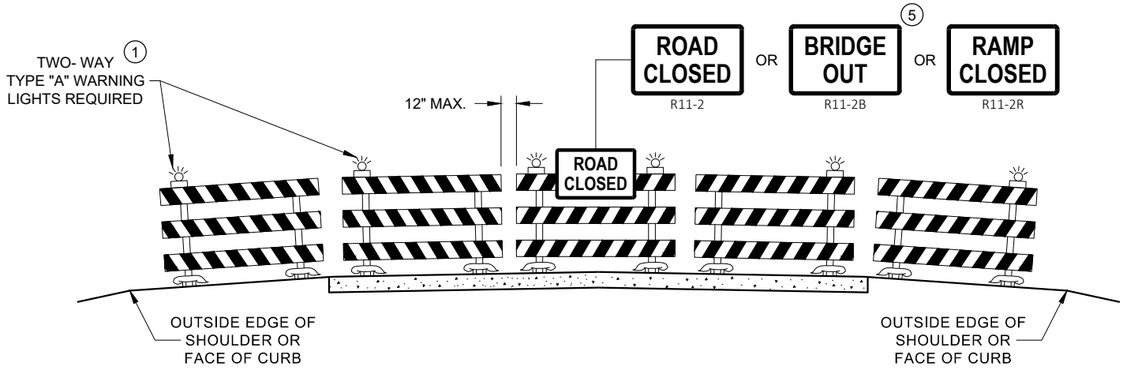
APPROVED
February 2020
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

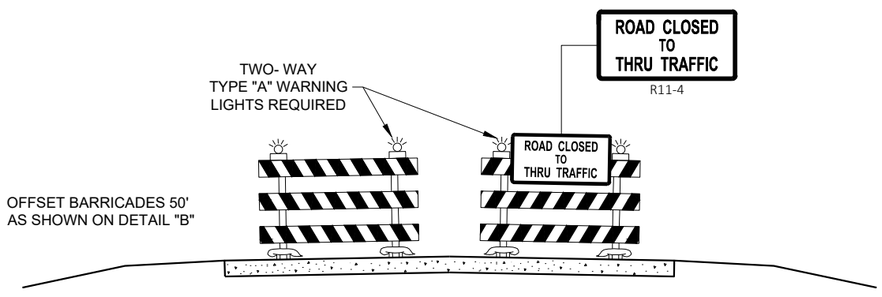
SDD 15C02 - 08a

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SDD 15C02 - 08a



DETAIL D
ROAD CLOSURE BARRICADE DETAIL
APPROACH VIEW



DETAIL E
LANE CLOSURE BARRICADE DETAIL
APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

TYPE "A" LOW - INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11 - 2, R11 - 3, M4 - 9, R11 - 4, AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

"WO" AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11 - 2 SHALL BE 48" X 30"
- R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60 " X 30"
- M4 - 9 SHALL BE 30" X 24"
- M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1 - 1 SHALL BE 36" X 36"

(1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING.

(2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.

(3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".

(4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".

(5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.

(6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.

(7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE
FHWA

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SDD 15C02 - 08b

6

SDD 15C02 - 08b

THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL DETOUR SIGN LAYOUT AND SPACING. SEE PROJECT DETOUR SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.

LEGEND

- SIGN ON PERMANENT SUPPORT
- WORK AREA
- DETOUR / EAST — M4 - 8, M3 - X
- XX — M1 - 4; OR XX — M1 - 6; OR COUNTY X — M1 - 5A
- M05 - 1; OR M06 - 1; OR M06 - 1

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

THE SPACING BETWEEN TRAFFIC CONTROL AND DETOUR SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOWS:

- M3-X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1-4, M1-5A AND M1-6 SHALL BE 24" X 24" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- M05-1 AND M06-1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-9 AND M4-59 SHALL BE 30" X 24"
- M4-8a SHALL BE 24" X 18"
- G20-51 SHALL BE 60" X 24"
- W20-2A SHALL BE 48" X 48"
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

* OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.

** FOR A TOWN ROAD OR LOCAL STREET DETOURED ONTO A STATE TRUNK HIGHWAY, PLACE A ROAD NAME PLAQUE ABOVE THE M4-9 SIGN AS SPECIFIED IN THE CONTRACT.

M3-X 24" X 12"
M1-X 24" X 24"
DETOUR AHEAD
W20-2A
USE ON STATE TRUNK, U.S. OR INTERSTATE HIGHWAYS, OR AS SPECIFIED IN THE CONTRACT

500' AT 25-40 MPH
1000' AT 45+ MPH

500'

DETOUR EAST XX *
D1-X COMMUNITY NAME *
(IF PRE-EXISTING SIGN, COVER ARROW PER SIGN PLATE A4-12)

M4-8a END DETOUR WEST XX *

DETOUR EAST XX / WEST XX

DETOUR ROUTE

WORK AREA

DETOUR EAST XX

WEST XX OR M4-9L DETOUR ** IF TOWN ROAD OR LOCAL STREET

500'

DETOUR NEXT X MILES * G20-51

DETOUR WEST XX * OR M4-59L DETOUR ** IF TOWN ROAD OR LOCAL STREET

MATCH POINT

* M4-59L DETOUR ** OR DETOUR EAST XX * IF TOWN ROAD OR LOCAL STREET

D1-X COMMUNITY NAME * (IF PRE-EXISTING SIGN, COVER ARROW PER SIGN PLATE A4-12)

500'

M4-9L DETOUR ** OR DETOUR EAST XX IF TOWN ROAD OR LOCAL STREET

DETOUR WEST XX

DETOUR WEST XX OR M4-9R DETOUR ** IF TOWN ROAD OR LOCAL STREET

DETOUR WEST XX * OR M4-59R * DETOUR ** IF TOWN ROAD OR LOCAL STREET

500'

DETOUR ROUTE

500' AT 25 - 40 MPH
1000' AT 45+ MPH

500'

M3-X 24" X 12"
M1-X 24" X 24"
DETOUR AHEAD
W20-2A
USE ON STATE TRUNK, U.S. OR INTERSTATE HIGHWAYS, OR AS SPECIFIED IN THE CONTRACT

DETOUR EAST XX *

D1-X COMMUNITY NAME *
(IF PRE-EXISTING SIGN, COVER ARROW PER SIGN PLATE A4-12)

DETOUR EAST XX

500'

DETOUR EAST XX

DETOUR EAST XX *

D1-X COMMUNITY NAME *
(IF PRE-EXISTING SIGN, COVER ARROW PER SIGN PLATE A4-12)

PLACE SIGNS BEYOND INTERSECTIONS WITH STATE OR COUNTY TRUNK HIGHWAYS OR AT 4 MILE MAXIMUM SPACING (4 BLOCKS IF URBAN AREA)

500' AT 25 - 40 MPH
1000' AT 45+ MPH

DETOUR EAST XX *

EAST XX M3-X 24" X 12" M1-X 24" X 24"
DETOUR AHEAD
W20-2A
USE ON STATE TRUNK, U.S. OR INTERSTATE HIGHWAYS, OR AS SPECIFIED IN THE CONTRACT

SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS AND DETAIL A OR B ON SDD SHEET 15C02 - SHEET "a"

DETAIL F
DETOUR SIGNING

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

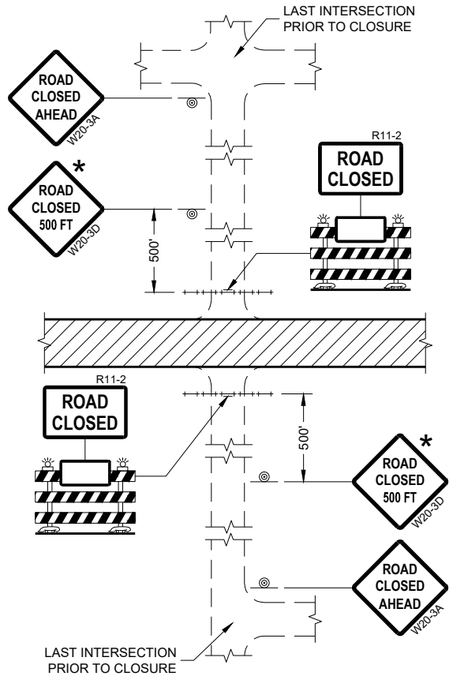
APPROVED
February 2020
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

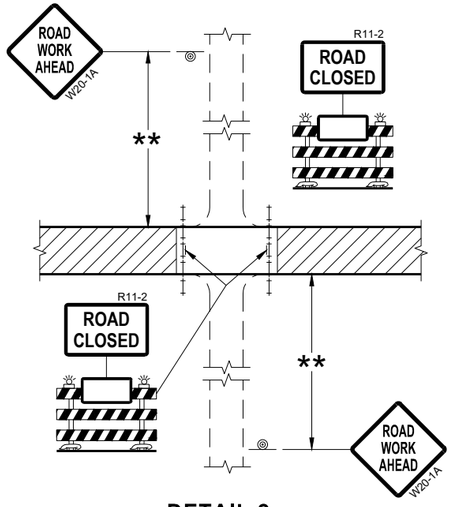
SDD 15C02 - 08c

6

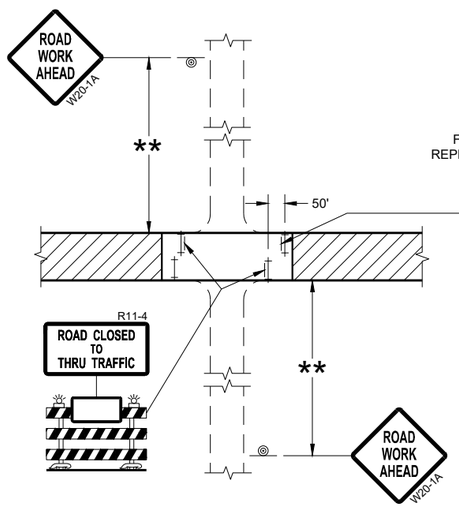
SDD 15C02 - 08c



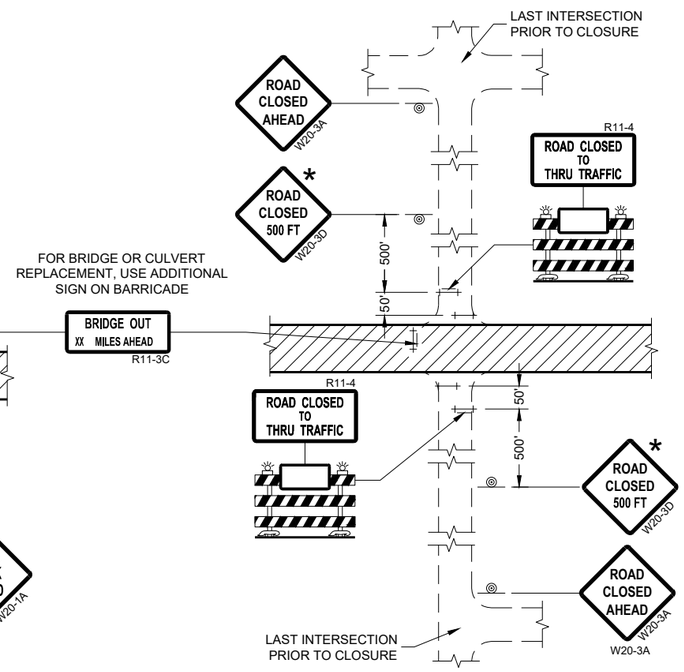
DETAIL 1
(NO ACCESS TO PROJECT)



DETAIL 2
(PUBLIC CROSS-TRAFFIC MAINTAINED.
NO ACCESS TO PROJECT)



DETAIL 3
(PUBLIC CROSS-TRAFFIC MAINTAINED.
CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)



DETAIL 4
(CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE (500 FEET DESIRABLE) TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3, AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

* OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FEET OR LESS FROM THE WORK ZONE.

** 500' MAX. OR AT LAST INTERSECTION, WHICHEVER IS CLOSEST.

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD 15C03 - 05

6

SDD 15C03 - 05

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

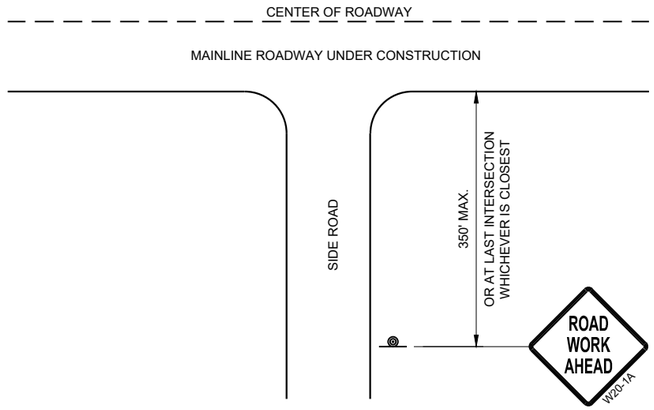
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"X36" SIGNS MAY BE USED INSTEAD OF 48" X 48" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED.

* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FEET" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.



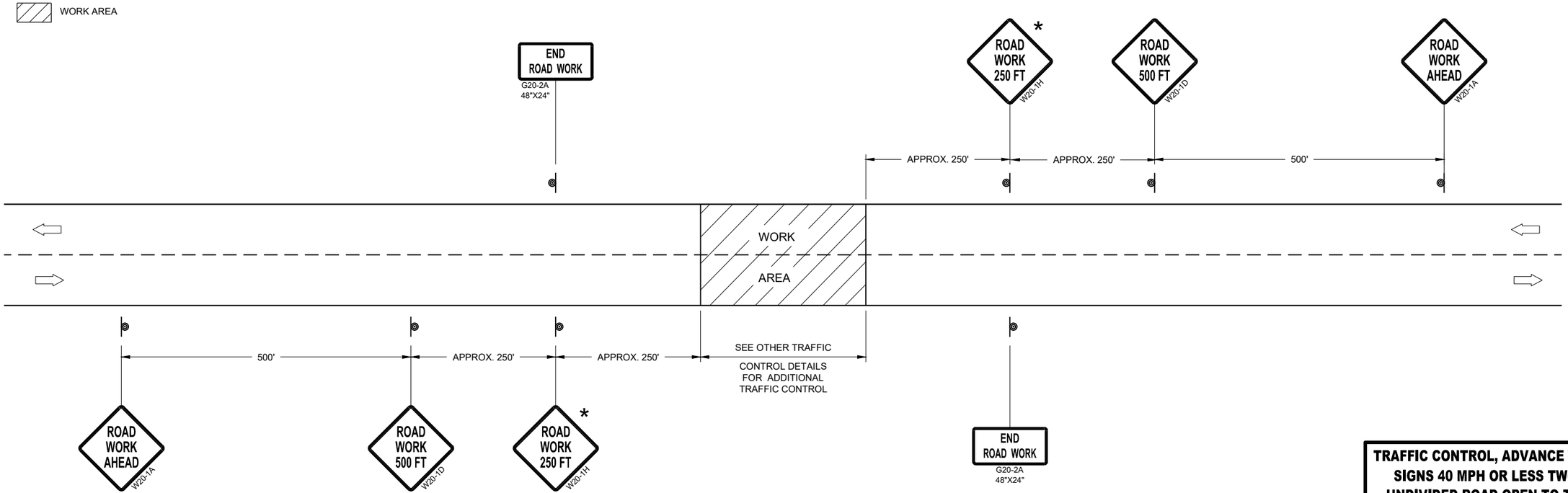
TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA



TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40MPH OR LESS

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 MPH OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

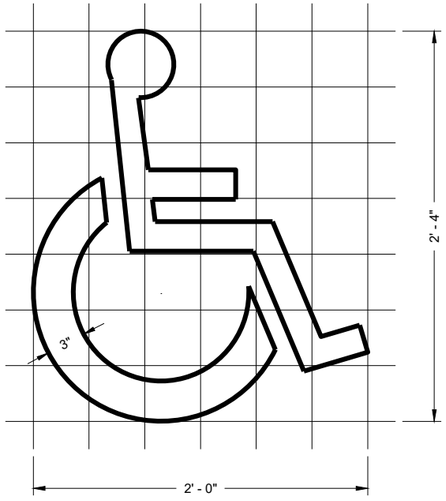
FHWA

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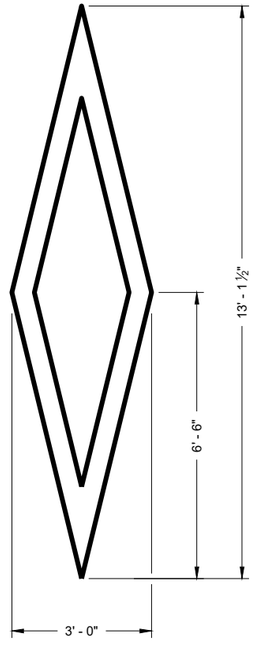
SDD 15C05 - 05

GENERAL NOTES

DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



HANDICAP SYMBOL



PREFERENTIAL LANE SYMBOL

6

6

SDD 15C07 - 15a

SDD 15C07 - 15a

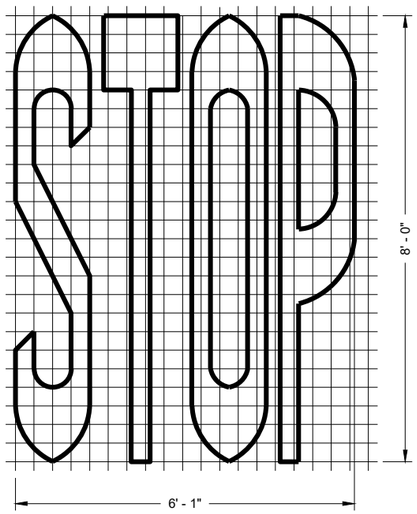
PAVEMENT MARKING SYMBOLS

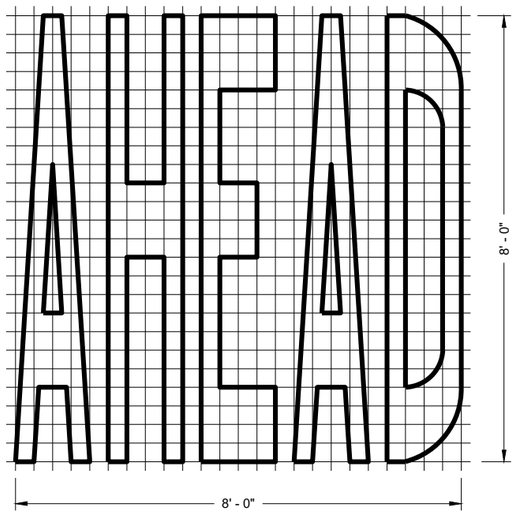
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

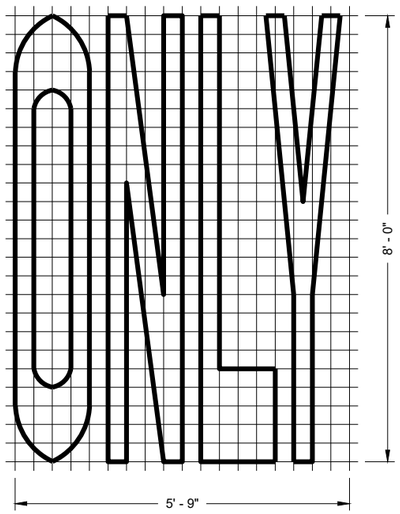
APPROVED
November 2019
DATE

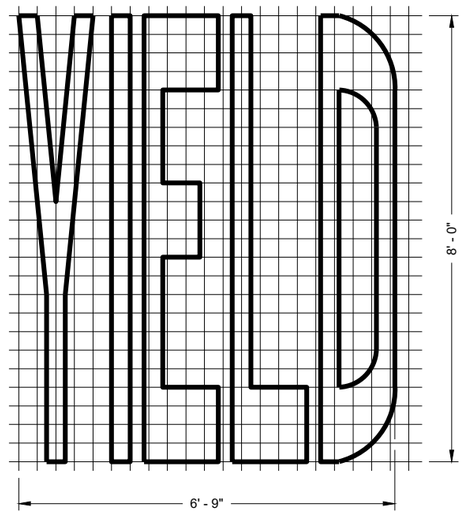
/S/ Matthew Rauch
STATE SIGNING AND MAR ENGINEER

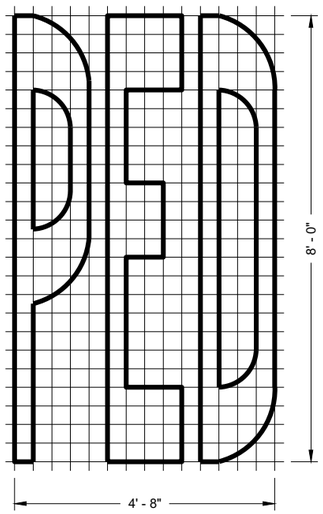
FHWA

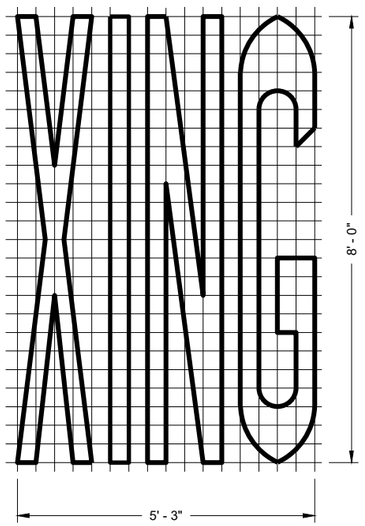


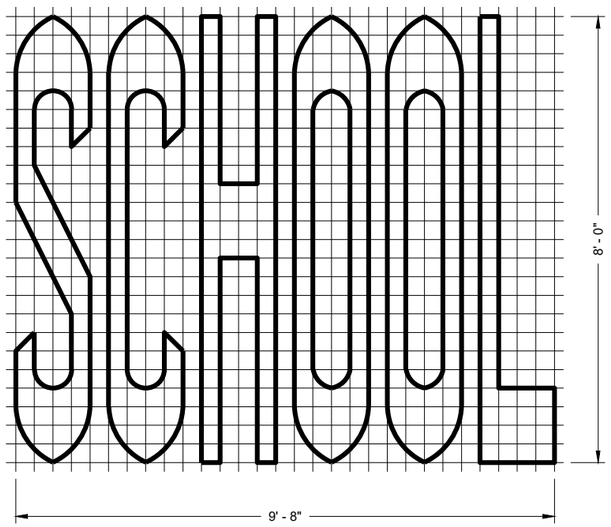




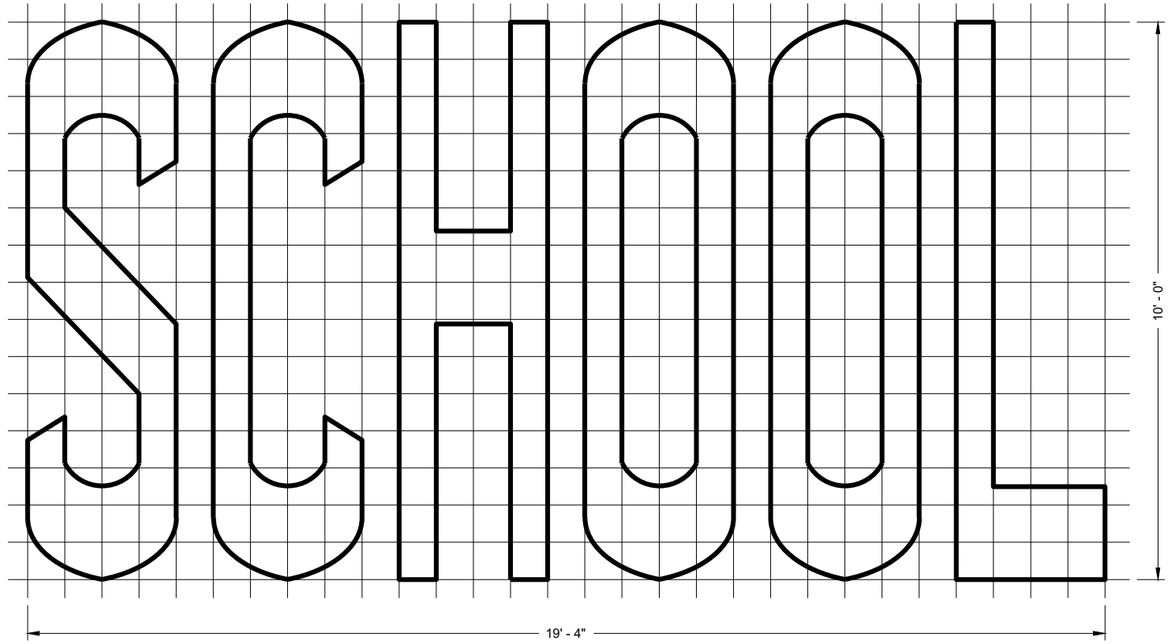








SINGLE LANE



TWO - LANE

GENERAL NOTES

DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

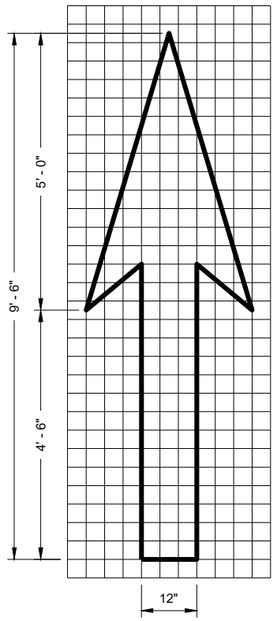
/S/ Matthew Rauch
STATE SIGNING AND MAF ENGINEER

FHWA

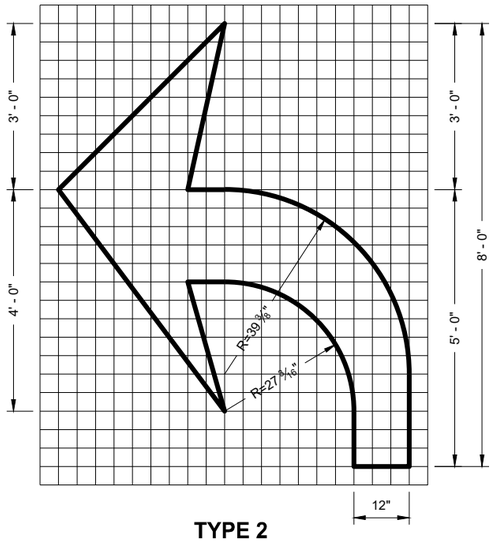
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SDD 15C07 - 15b

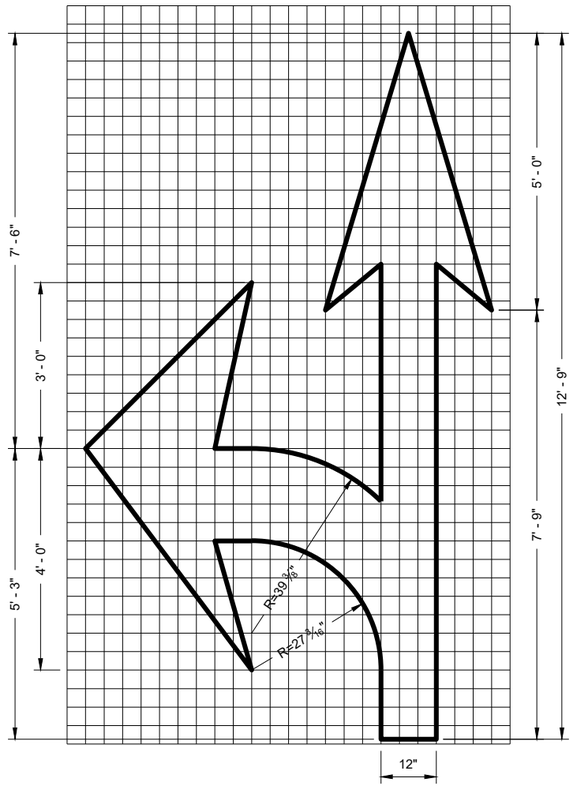
SDD 15C07 - 15b



TYPE 1



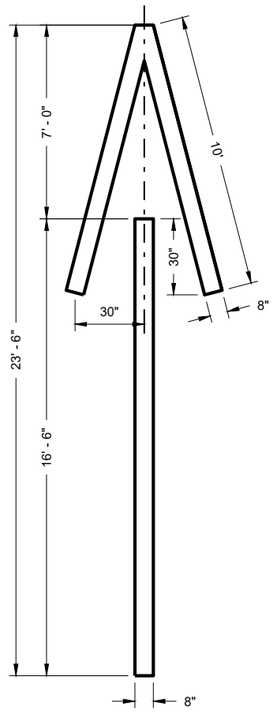
TYPE 2



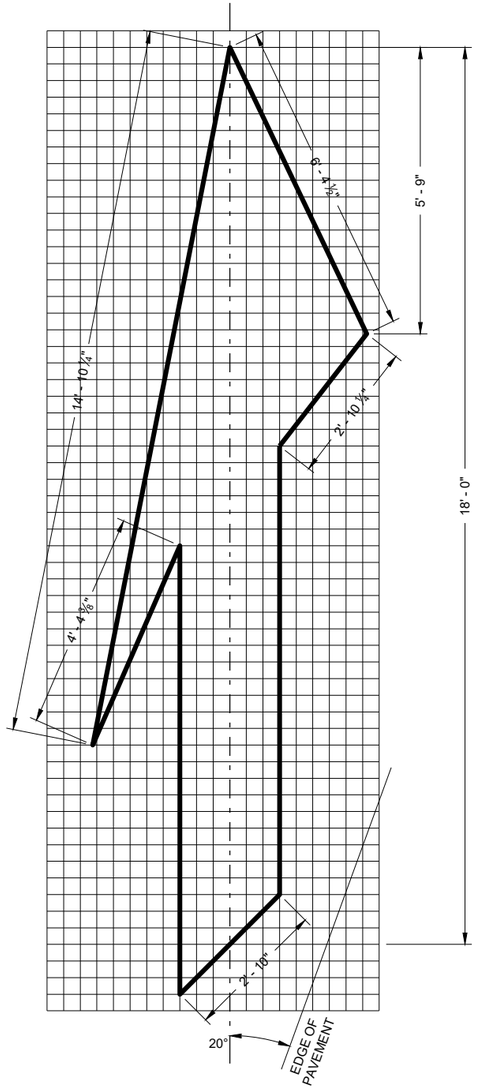
TYPE 3

GENERAL NOTES

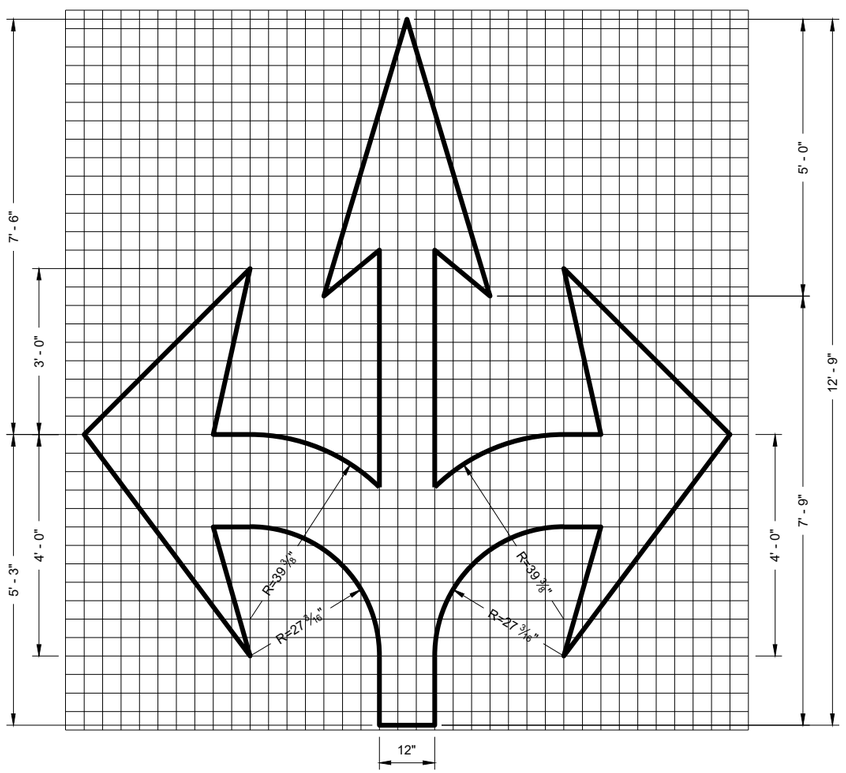
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



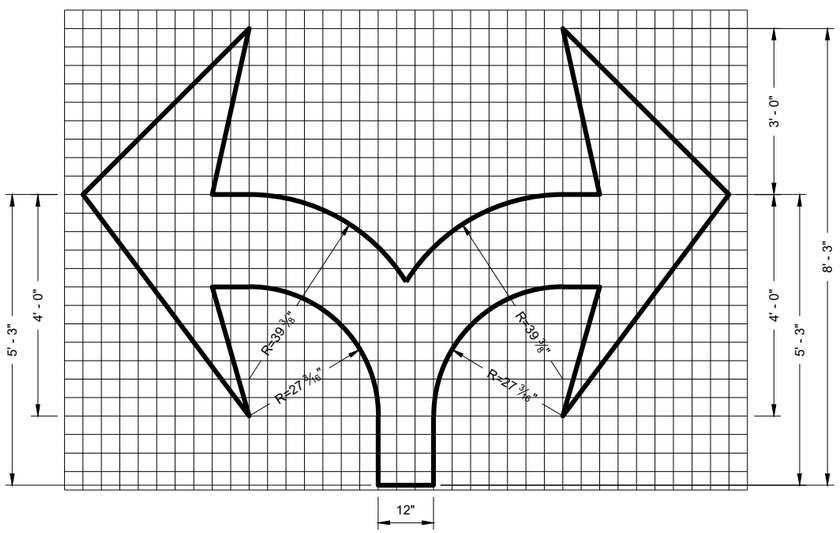
TYPE 4



TYPE 5 LANE DROP ARROW



TYPE 6



TYPE 7

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

/S/ Matthew Rauch
STATE SIGNING AND MAF ENGINEER

FHWA

6

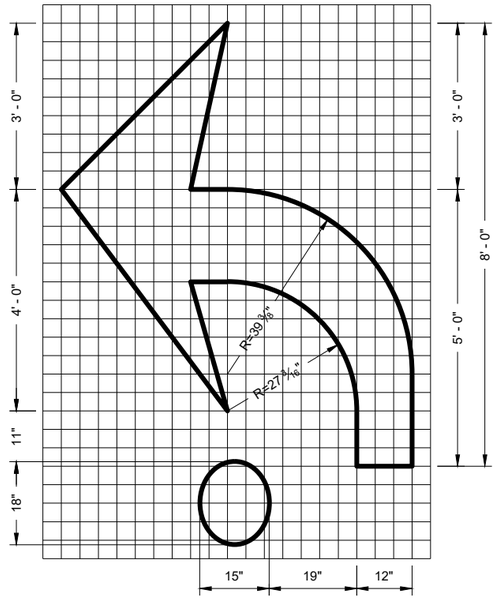
SDD 15C07 - 15c

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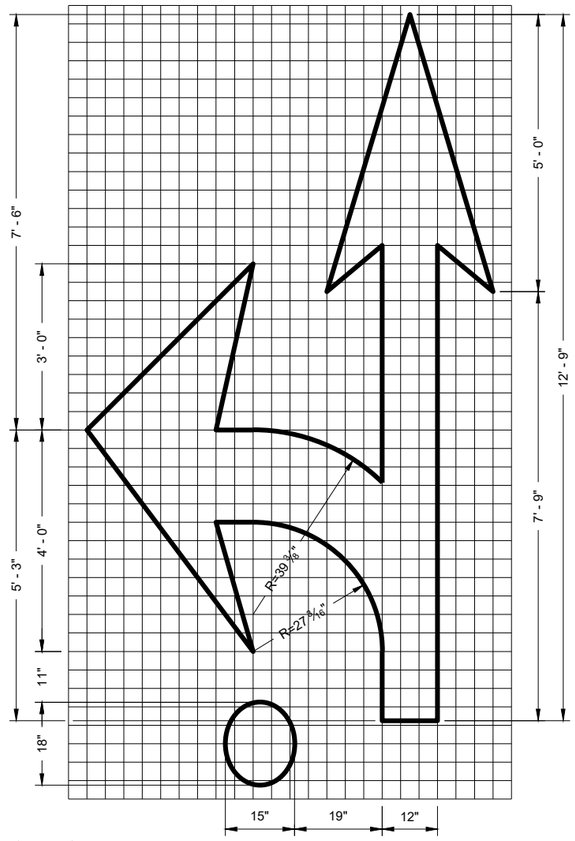
SDD 15C07 - 15c

GENERAL NOTES

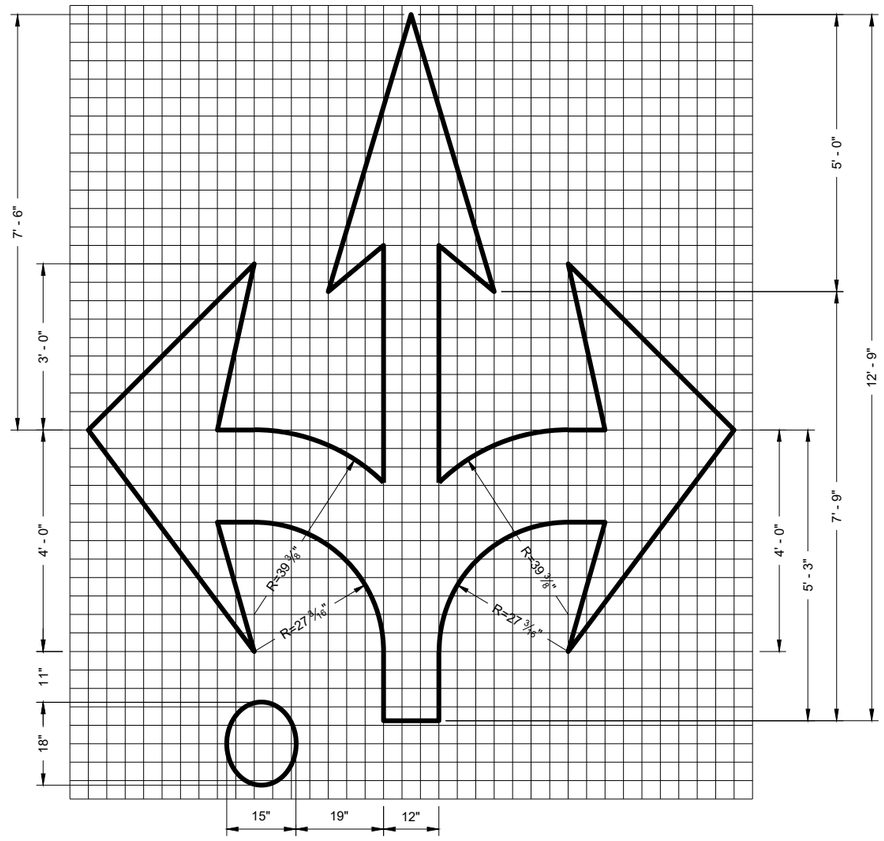
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



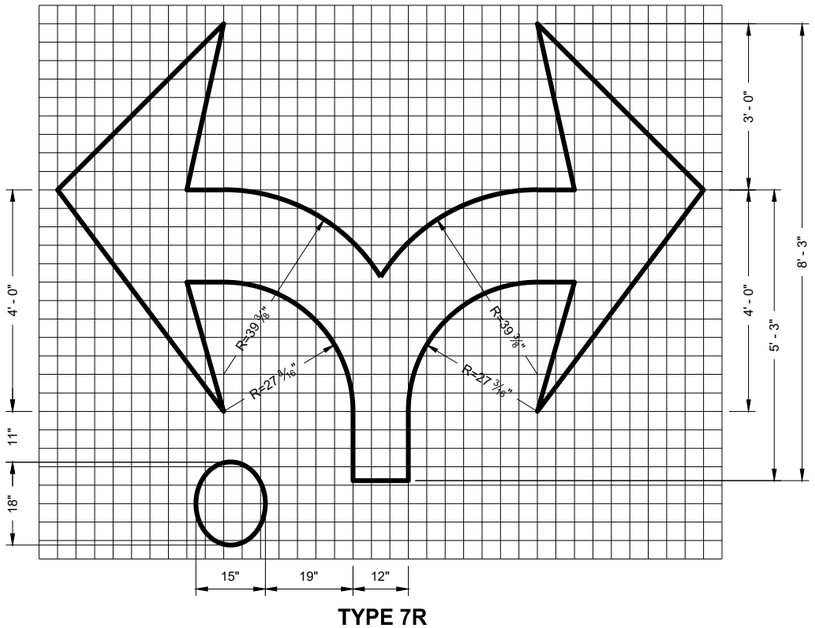
TYPE 2R



TYPE 3R



TYPE 6R



TYPE 7R

ROUNDABOUT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

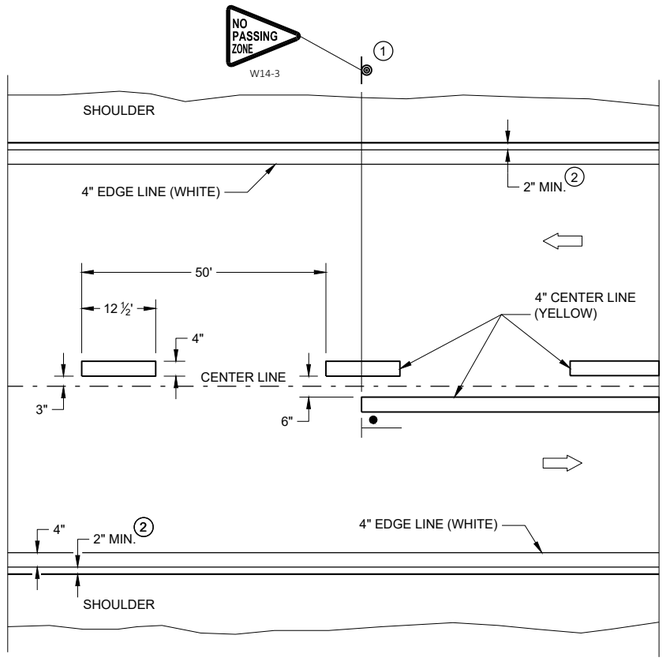
November 2019
DATE

/S/ Matthew Rauch
STATE SIGNING AND MAF ENGINEER

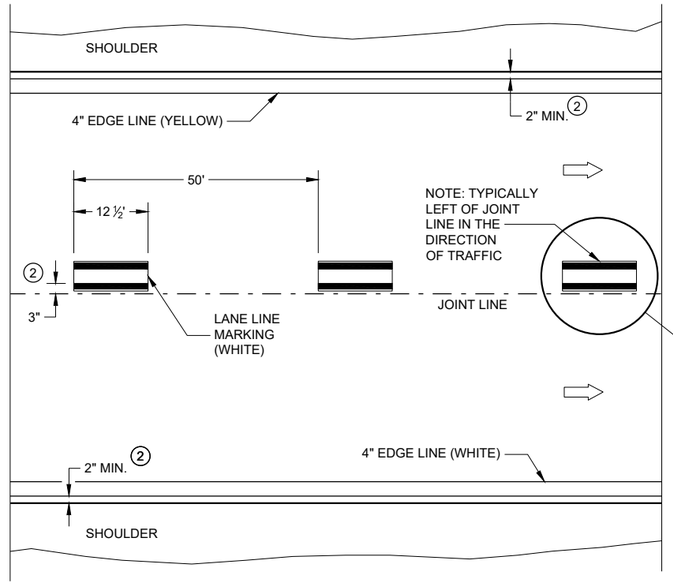
FHWA

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SDD15C07 - 15d

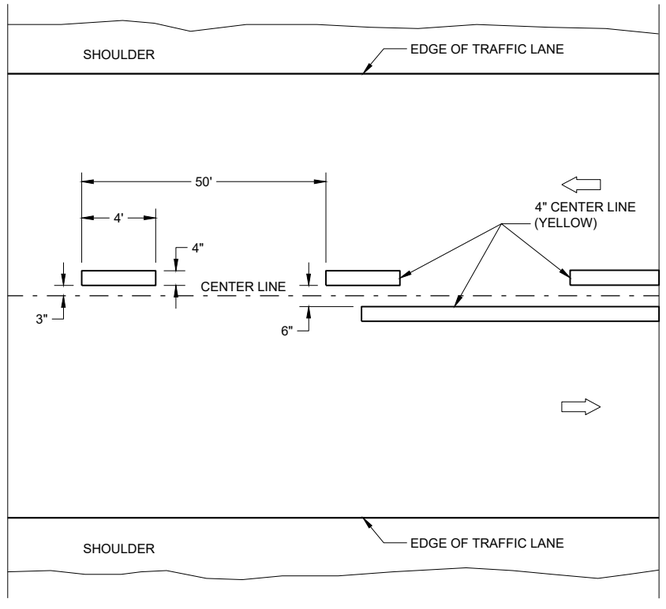


TWO WAY TRAFFIC

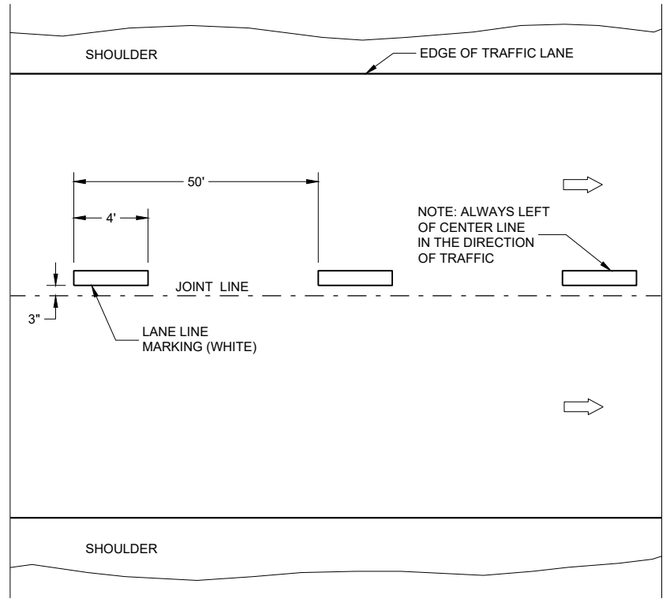


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

GENERAL NOTES

DETAILS OF CONSTRUCTION NO SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

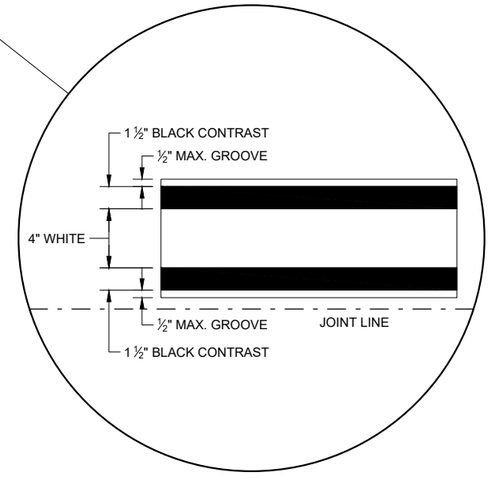
1. LOCATE THE NO PASSING ZONE W14-3 SIGN WITH 50 FEET OF THE "T" MARKING
2. MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

LEGEND

"T" MARKING

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC



LONGITUDINAL MARKING (MAINLINE)

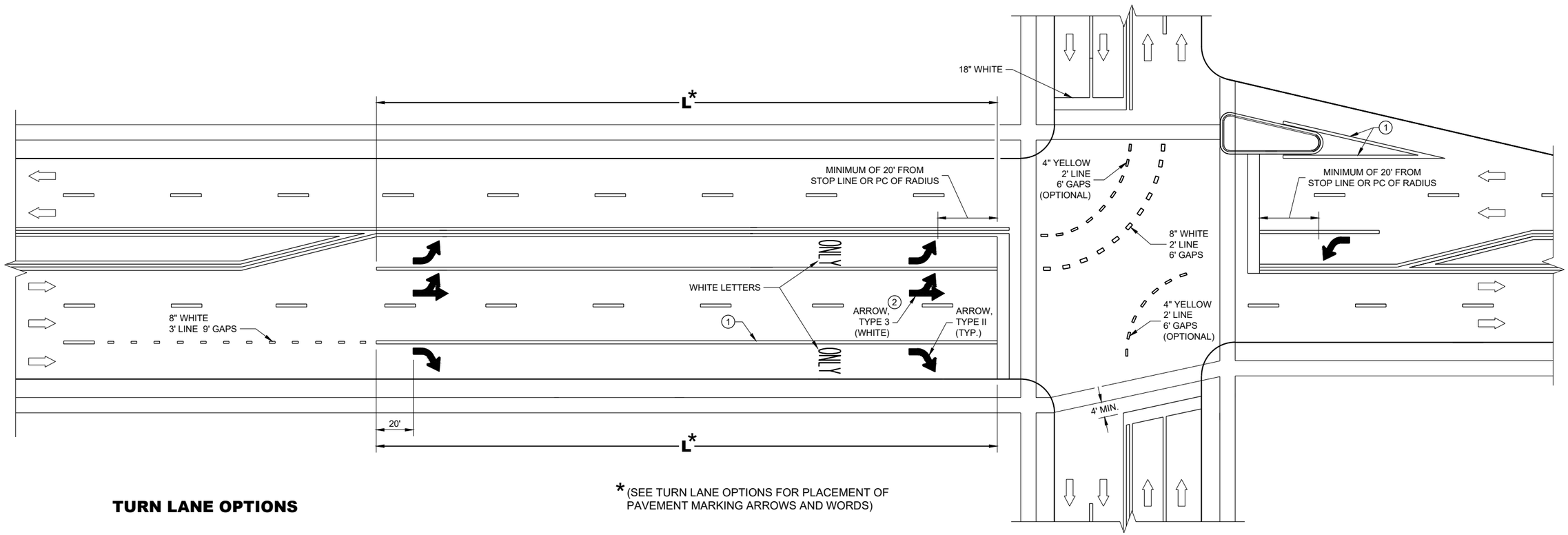
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020 — DATE
/S/ Matthew Rauch — STATEWIDE SIGNING AND M ENGINEER

FHWA

SDD 15C08 - 20a

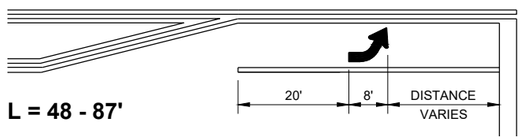
SDD 15C08 - 20a



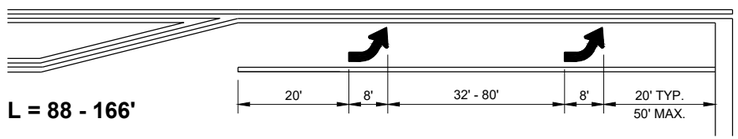
* (SEE TURN LANE OPTIONS FOR PLACEMENT OF PAVEMENT MARKING ARROWS AND WORDS)

TURN LANE OPTIONS

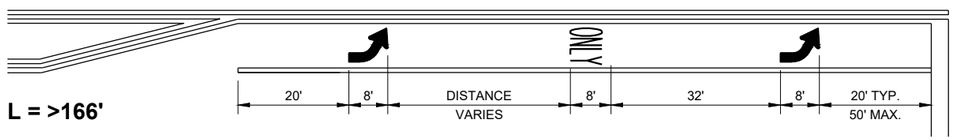
LENGTH OF TURN BAY (**L**) OF 0 - 47' DOES NOT REQUIRE PAVEMENT MARKING ARROWS OR WORDS



L = 48 - 87'



L = 88 - 166'



L = >166'

GENERAL NOTES

1. 8" WHITE
2. QUANTITY AND LOCATION OF TYPE 3 ARROWS ARE THE SAME AS THE TYPE II ARROWS IN THE ADJACENT TURN LANE. FOR TURN LANES WITH A PHYSICAL SEPARATION IN THE SAME DIRECTION OF TRAVEL, THE ARROWS AND "ONLY" MARKING MAY BE ELIMINATED.

DIRECTION OF TRAFFIC

L = LENGTH OF TURN BAY

PAVEMENT MARKING (TURN LANES)

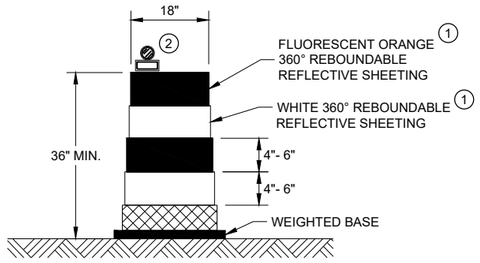
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

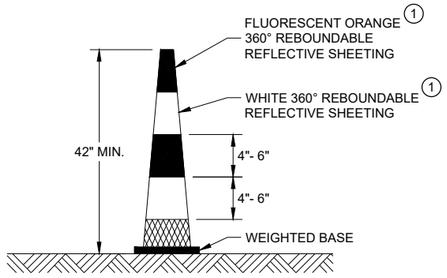
SDD 15C08 - 20c

GENERAL NOTES

1. REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
2. LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.

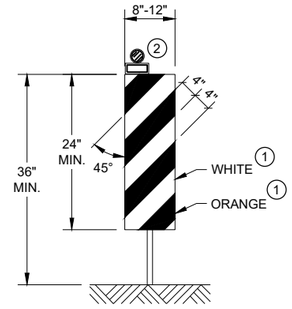


DRUM



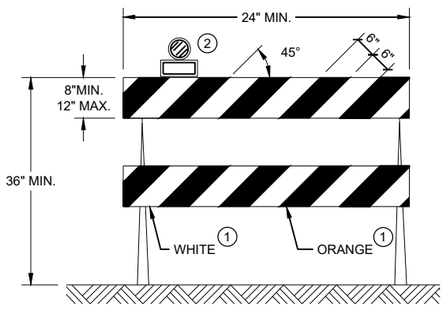
42" CONE

DO NOT USE IN TAPERS
½ SPACING OF DRUMS



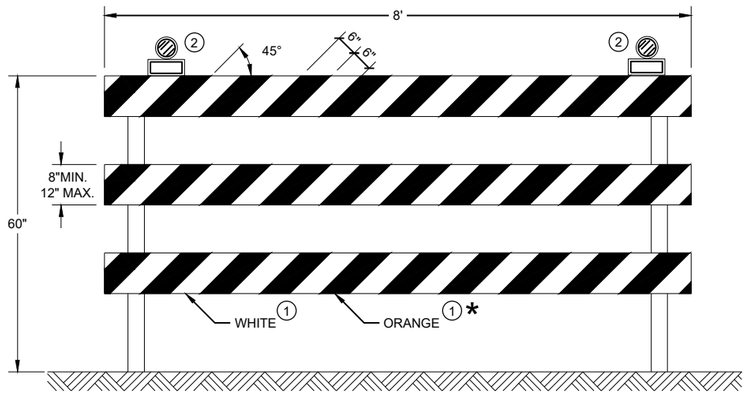
VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO
THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES
MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD
TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE III BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP
TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES
DRUMS, CONES, BARRICADES
AND VERTICAL PANELS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

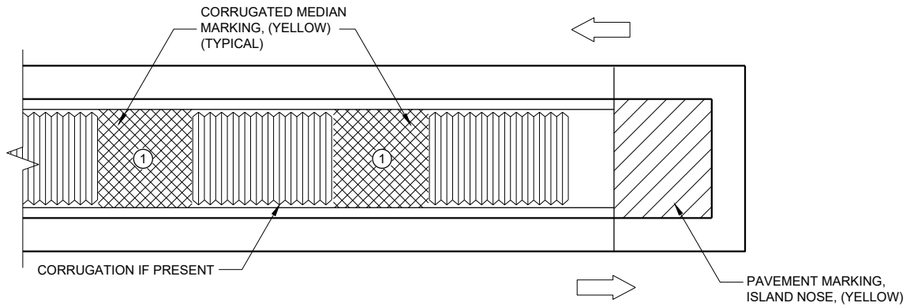
APPROVED
November 2020
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE
FHWA

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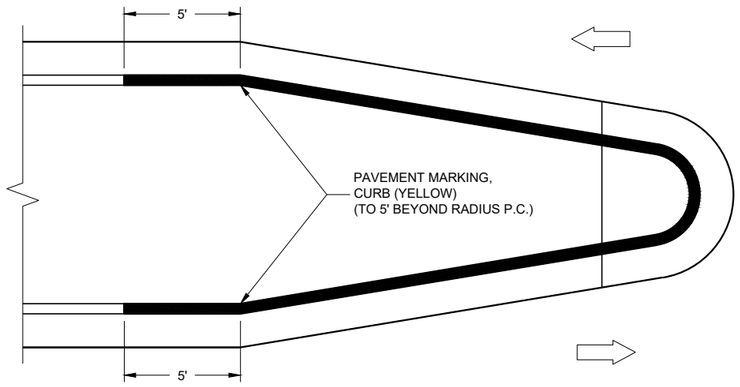
SDD15C11 - 08b

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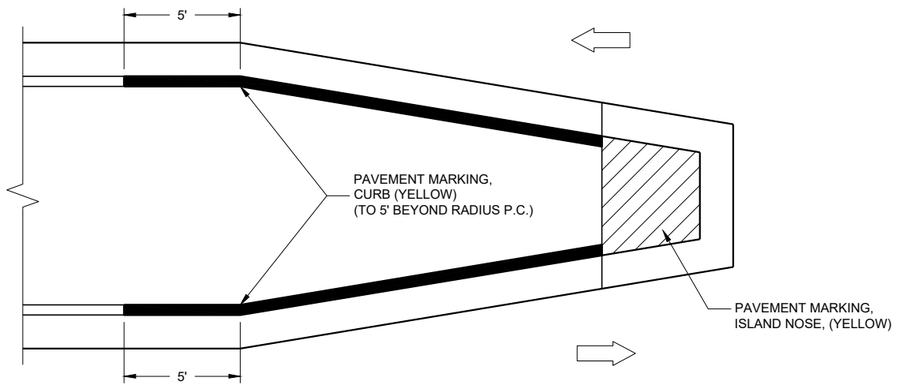
SDD15C11 - 08b



MEDIAN ISLAND WITH SQUARE BLUNT NOSE



MEDIAN ISLAND WITH ROUND BLUNT NOSE

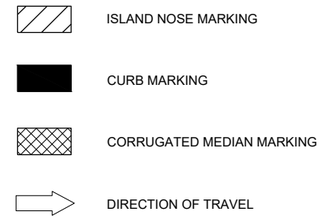


MEDIAN ISLAND WITH SLOPED NOSE

TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS

GENERAL NOTES

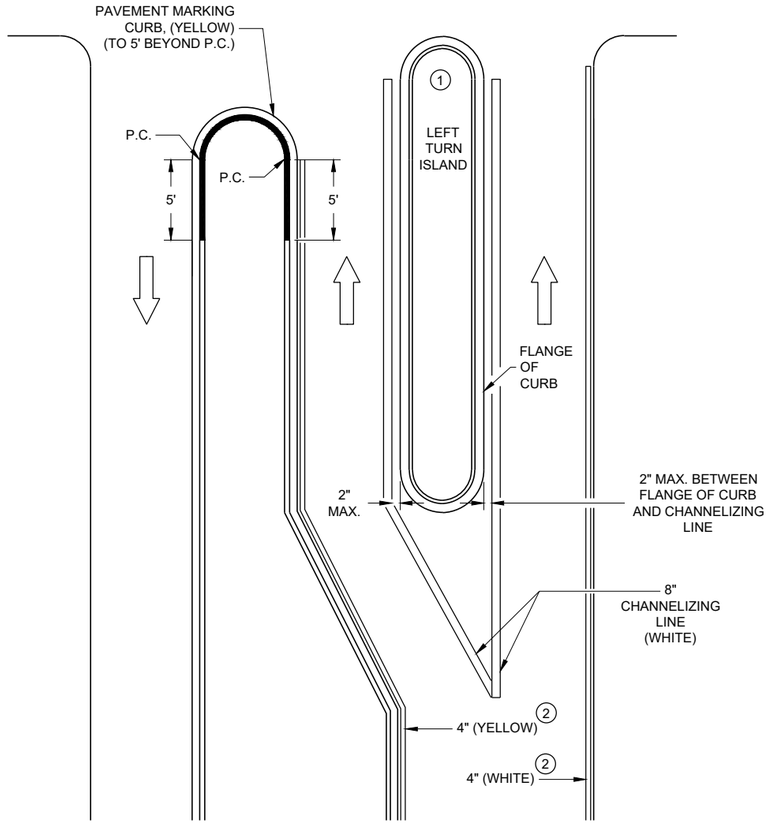
WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION, YELLOW PAVEMENT MARKING SHALL BE APPLIED TO THE FLAT PORTION OF THE CONCRETE CORRUGATED MEDIAN. THE ITEM OF PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, WILL BE MEASURED IN PLACE AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.



PAVEMENT MARKINGS, MEDIAN ISLAND NOSE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED February 2021 DATE	/S/ Matthew R. Rauch STATE SIGNING AND MAF ENGINEER
FHWA	

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SDD15C18 - 05b

REQUIREMENTS FOR EDGE LINES		
POSTED SPEED	IS THERE CONTINUOUS LIGHTING?	
	YES	NO
≤ 30 MPH	NO	OPTIONAL
35 OR 40 MPH	OPTIONAL	RECOMMENDED
≥ 45 MPH	RECOMMENDED	REQUIRED



LEFT TURN & MEDIAN ISLAND

GENERAL NOTES

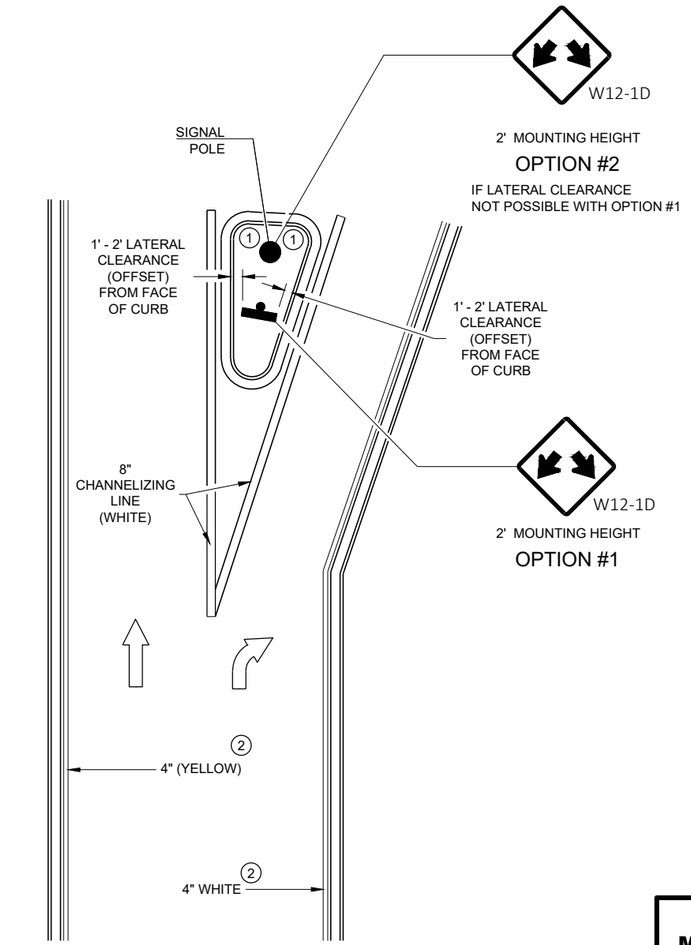
APPLIES TO ISLANDS AT LEFT TURNS AT ONE WAY ROADWAYS AS WELL.

SEE MISCELLANEOUS QUANTITIES FOR SIGN SIZE.

(1) MARK CURB NOSES YELLOW.

(2) MARK ACCORDING TO TABLE.

DIRECTION OF TRAVEL



RIGHT TURN ISLAND

MEDIAN PAVEMENT MARKINGS, DOUBLE ARROW WARNING SIGN PLACEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

February 2021
DATE

/S/ Matthew R. Rauch
STATE SIGNING AND MAF ENGINEER

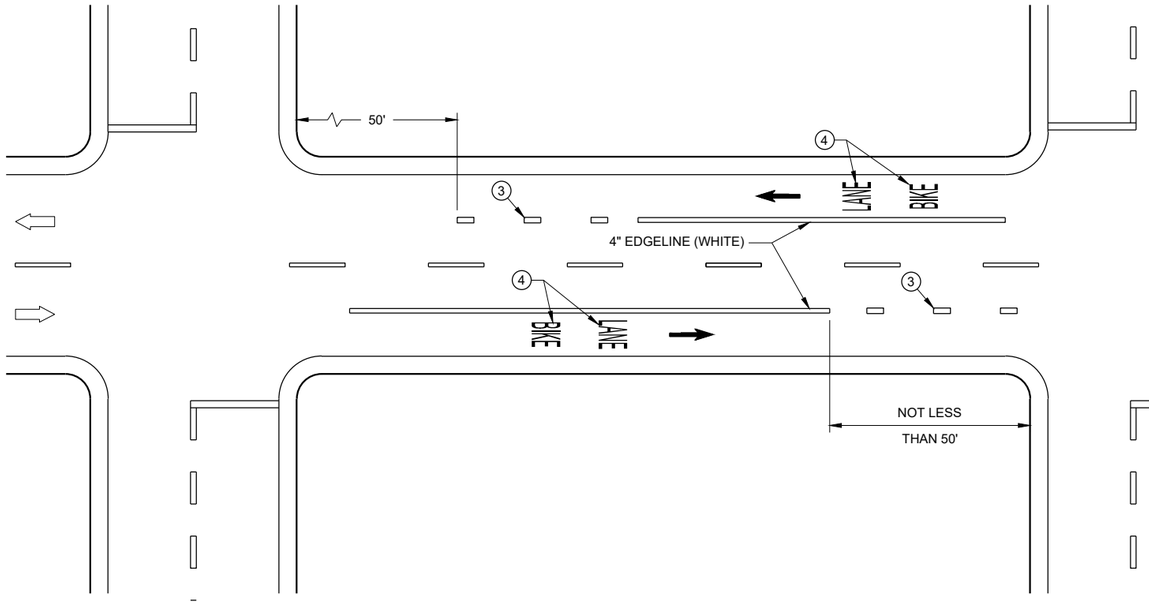
FHWA

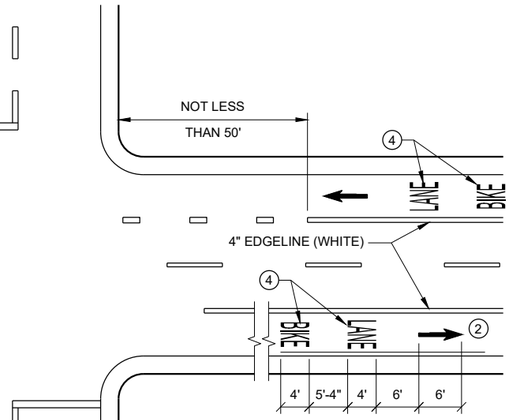
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SDD 15C18 - 05c

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SDD 15C18 - 05c



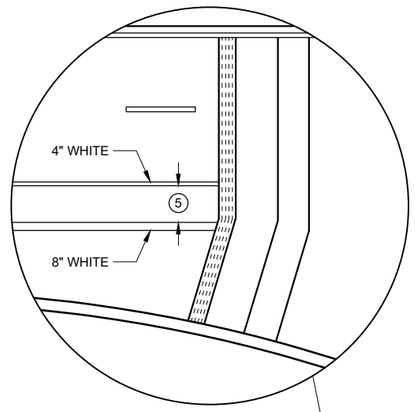


GENERAL NOTES

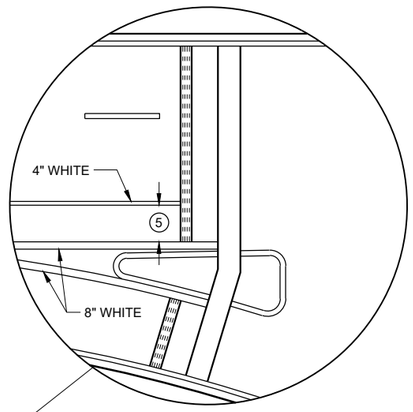
1. DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
2. MINIMUM OF ONE PER BLOCK. MAXIMUM OF 250 FEET.
3. DOTTED LINES (3' LINE, 9' GAP) SHOULD BE USED 50 FEET TO 200 FEET IN ADVANCE OF AN INTERSECTION WHERE THERE IS NO RIGHT TURN ONLY LANE AND THERE IS HEAVY RIGHT TURN TRAFFIC OR THERE IS A NEAR-SIDE BUS STOP. AT OTHER INTERSECTIONS WHERE RIGHT TURN TRAFFIC IS LIGHT TO MODERATE, A SOLID LINE CAN BE USED UP TO THE INTERSECTION.
4. BIKE SYMBOLS OR WORDS MAY BE USED.
5. BIKE ACCOMMODATION IS TYPICAL 5 FEET WIDE AND MINIMUM OF 4 FEET FROM A LONGITUDINAL JOINT. USE 5 FEET AT ≥ 45 MPH.
6. OMIT THESE MARKINGS FOR WIDER TURN LANE APPLICATIONS (MINIMUM OF 15 FOOT WIDE TURN LANE).
7. REFER TO CONTRACT PLANS FOR LANE WIDTH.

DIRECTION OF TRAVEL

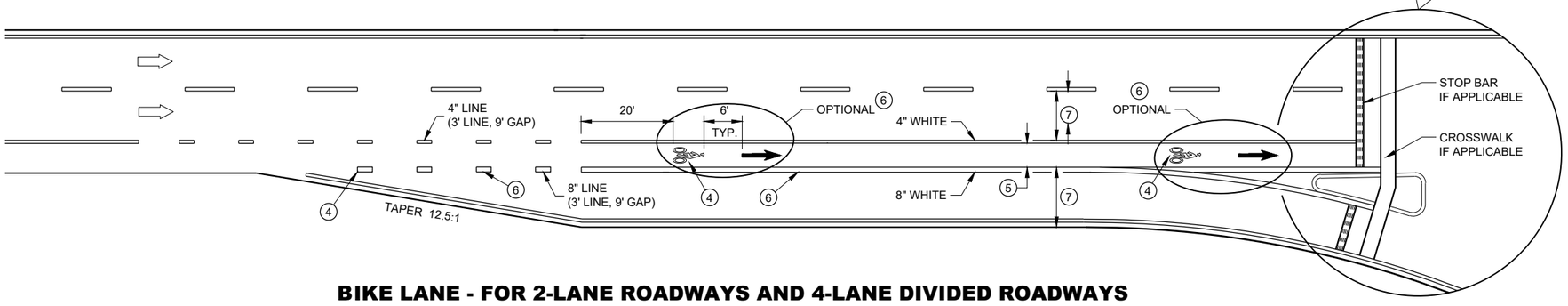
DESIGNATED BIKE LANE - NO PARKING



4 LANE DIVIDED WITHOUT ISLAND



4 LANE DIVIDED WITH ISLAND



BIKE LANE - FOR 2-LANE ROADWAYS AND 4-LANE DIVIDED ROADWAYS
(4-LANE DIVIDED WITH RIGHT TURN LANE SHOWN)

BIKE LANE MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

May 2020
DATE

/S/ Matthew Rauch
STATE SIGNING AND MAF ENGINEER

FHWA

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SDD 15C29 - 07a

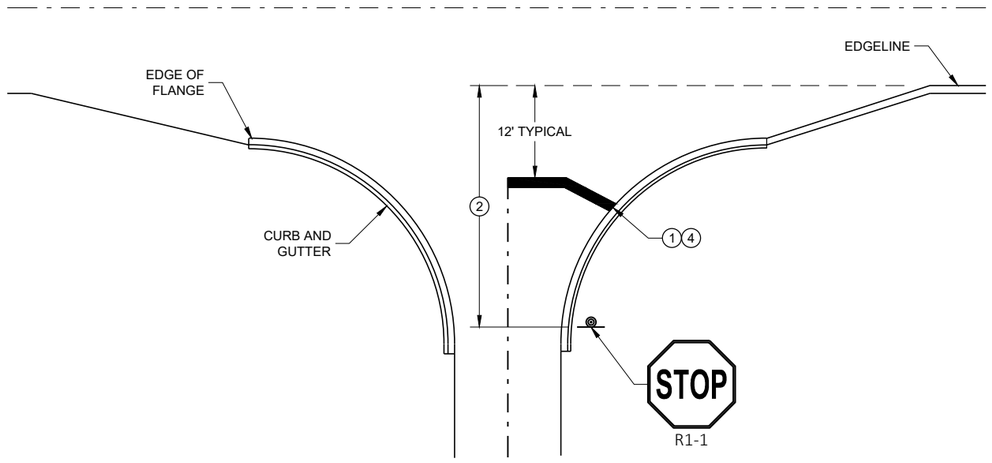
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SDD 15C29 - 07a

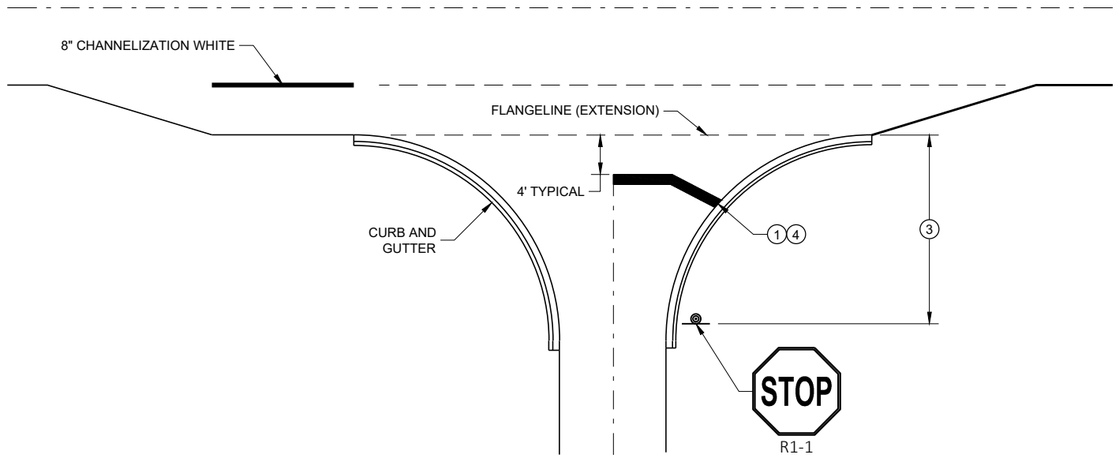
GENERAL NOTES

STOP SIGN SHALL BE PLACED A MINIMUM OF 6 FEET TO A MAXIMUM OF 50 FEET FROM THE EDGELINE LOCATION.

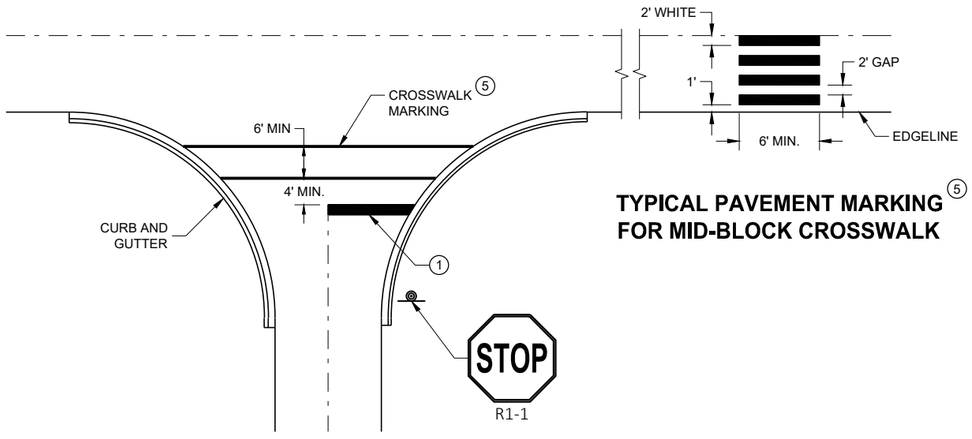
1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE REGION MARKING ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE.
3. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION.
4. MOVE CLOSER TO THE EDGE OF TRAVEL LINE AS NEEDED FOR VISIBILITY AND SIGHT LINES (NO CLOSER THAN 4 FEET).
5. LADDER BAR CROSSWALKS SHOULD ONLY BE USED FOR MID BLOCK CROSSINGS. USE 2 - 6" TRANSVERSE LINES INSTEAD.



TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER

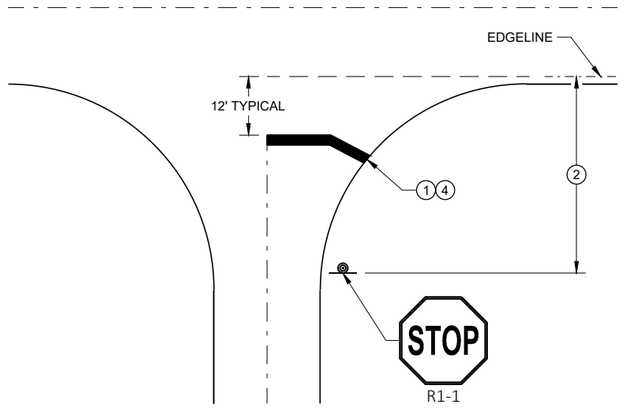


TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL PAVEMENT MARKING FOR MID-BLOCK CROSSWALK 5

TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

/S/ Matthew Rauch
STATE SIGNING AND MARKING ENGINEER

FHWA

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SDD 15C33 - 04

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- REMOVE PAVEMENT MARKING (SEE GENERAL NOTES)
- WORK AREA

GENERAL NOTES

FOR WORK ON ROADWAYS WITH SPEEDS GREATER THAN 45MPH, USE SDD 15D12.

THIS LANE CLOSURE DETAIL IS TYPICAL FOR CLOSING THE LEFT LANE. FOR A RIGHT LANE CLOSURE, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR ROADWAYS WITH EITHER TWO OR THREE LANES IN EACH DIRECTION.

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36"X 36" SIGNS MAY BE USED IF APPROVED BY REGIONAL TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON TEMPORARY SUPPORTS.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE

W20-1A, G20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROW BOARDS AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

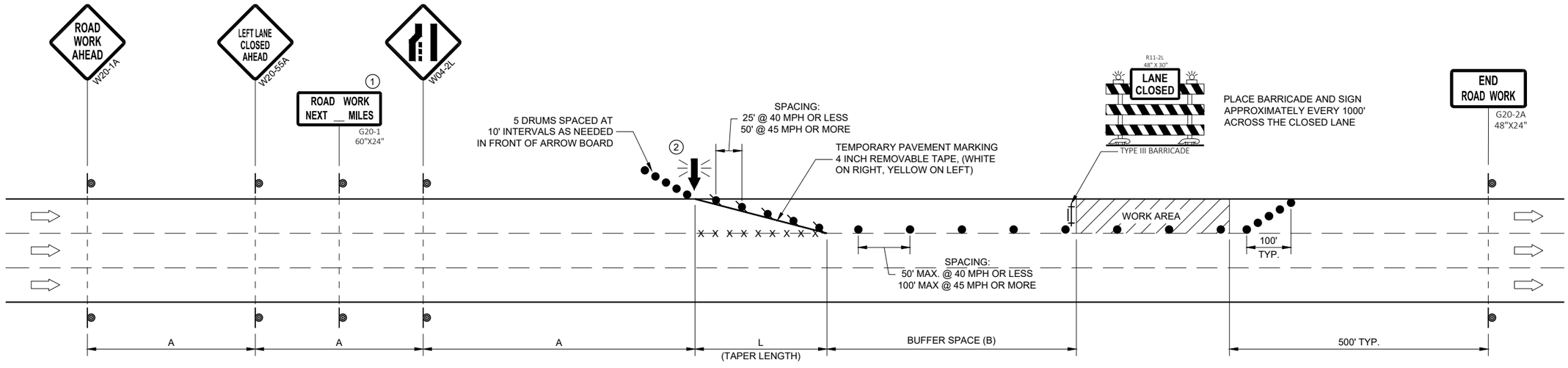
BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

(1) OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

(2) WHERE THE SHOULDER OR TERRACE HAS INSUFFICIENT SPACE TO PLACE THE ARROW BOARD AS SHOWN, PLACE THE ARROW BOARD AT THE END OF THE TAPER.



POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	TAPER LENGTH (12 FT. LANE) (L) FEET	BUFFER SPACE (B) FEET
25	200'	125'	55'
30	200'	180'	85'
35	350'	245'	120'
40	350'	320'	170'
45	500'	540'	220'

TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY

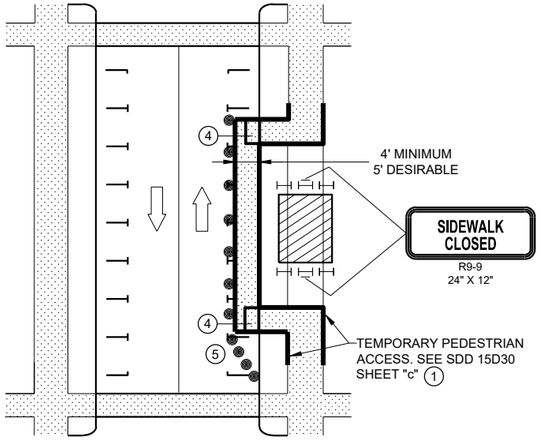
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2020 — DATE
/S/ Andrew Heidtke — STATEWIDE WORK ZONE T SAFETY ENGINEER
FHWA

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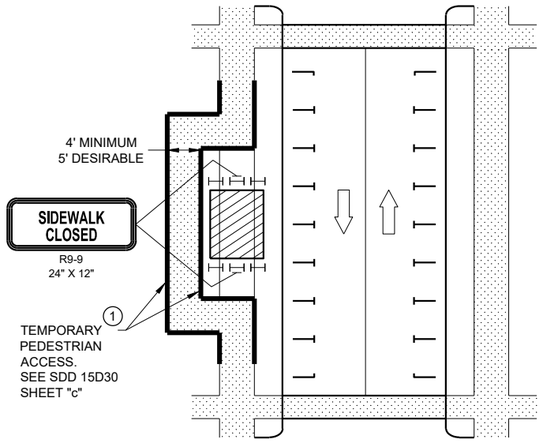
SDD 15D20 - 05a
SDD15D20 - 05a

NOTE: MAY BE USED ON ROADWAY WITH POSTED SPEED OF LESS THAN 40 MPH.

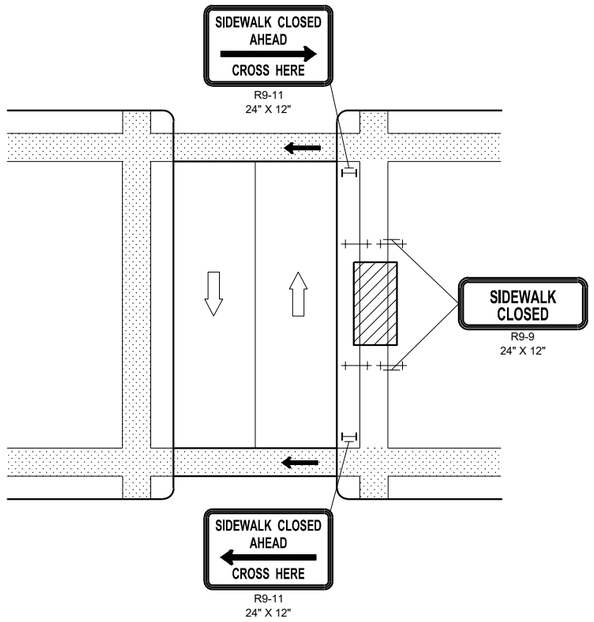


MID-BLOCK SIDEWALK CLOSURE IN PARKING LANE

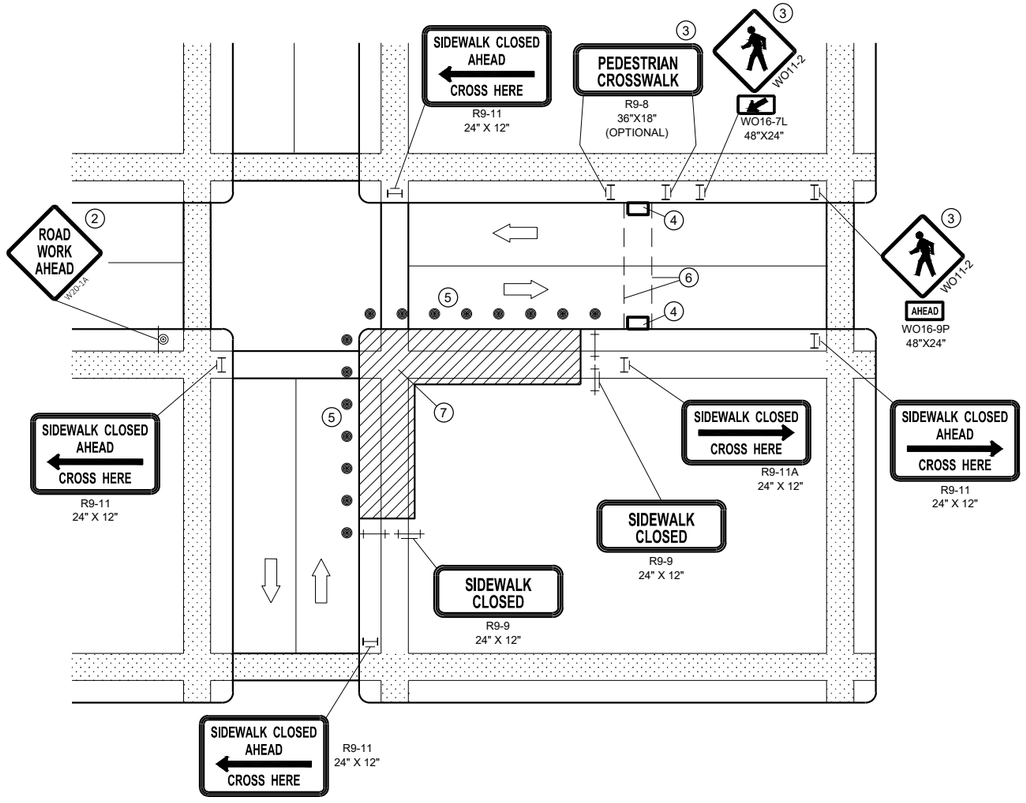
NOTE: LAYOUT SAME AS ABOVE.



SIDEWALK DIVERSION



MID-BLOCK SIDEWALK CLOSURE



CORNER SIDEWALK CLOSURE WITH TEMPORARY CROSSWALK

GENERAL NOTES

WHEN CLOSING OR RELOCATING CROSSWALKS OR SIDEWALKS, PROVIDE DETECABLE TEMPORARY FACILITIES AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH EXISTING PEDESTRIAN FACILITIES.

TEMPORARY TRAFFIC CONTROL DEVICES FOR PEDESTRIANS ARE SHOWN. OTHER DEVICES MAY BE NECESSARY TO CONTROL VEHICULAR TRAFFIC. STAGE WORK AS NECESSARY, TO PROVIDE A TEMPORARY PEDESTRIAN ACCESS ROUTE AT ALL TIMES. FOR ROADWAYS WITH NO AVAILABLE DETOURS, MAINTAIN ONE OPEN SIDEWALK AT ALL TIMES.

"WO" SIGN IS THE SAME AS "W" SIGN, EXCEPT THE BACKGROUND IS ORANGE.

FOR NIGHTIME CLOSURE, USE TYPE "A" FLASHING WARNING LIGHTS ON BARRICADES, SUPPORTING SIGNS AND CLOSING SIDEWALK. USE TYPE "C" STEADY BURN LIGHTS ON CHANNELIZING DEVICES SEPARATING THE WORK AREA FROM VEHICULAR TRAFFIC.

PEDESTRIAN TRAFFIC SIGNAL DISPLAY CONTROLLING CLOSED CROSSWALK SHALL BE COVERED OR DEACTIVATED.

POST MOUNTED SIGNS LOCATED ADJACENT TO A SIDEWALK SHALL HAVE A 7 FOOT MINIMUM CLEARANCE FROM THE BOTTOM OF THE SIGN TO THE SIDEWALK SURFACE.

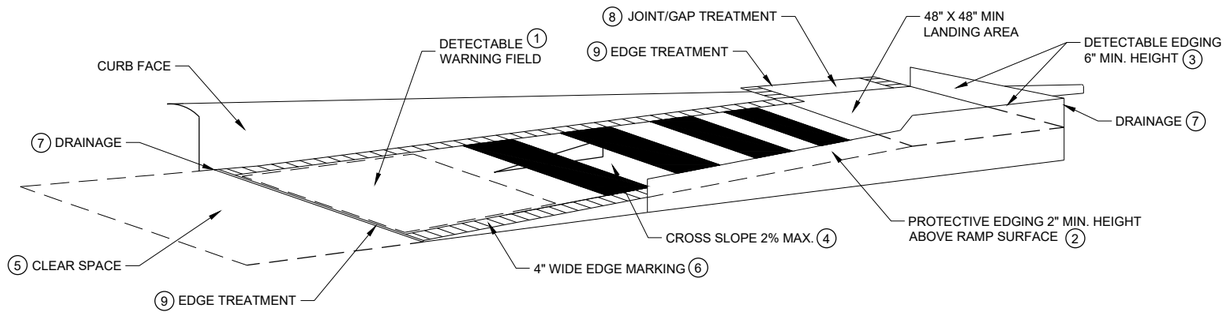
ALTERNATE SIDEWALK WORK BETWEEK LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

1. IF SIDEWALK CLOSURE AFFECTS AN ACCESSIBLE AND DETECTABLE FACILITY, MAINTAIN ACCESSIBILITY AND DETECTABILITY ALONG THE ALTERNATE PEDESTRIAN ROUTE
2. "ROAD WORK AHEAD" SIGNS ARE NOT REQUIRED IF THE SIDEWALK CLOSURE OCCURS WITHIN A LARGER WORK ZONE WHERE ADVANCE WARNING SIGNS ARE ALREADY PRESENT, OR IF THE WORK AREA AND EQUIPMENT ARE MORE THAN 2 FEET BEHIND THE CURB.
3. IF TEMPORARY PEDESTRIAN CROSSWALK IS NOT PROVIDED, OMIT R9-8 AND WO11-2 SIGN ASSEMBLIES. IF PROVIDED INCLUDE ON BOTH SIDES OF THE CROSSWALK.
4. TEMPORARY CURB RAMPS. SEE SDD 15D30 SHEET "b'.
5. DRUMS OR BARRICADES AT 25 FOOT SPACING. STREET PARKING SHALL BE PROHIBITED FOR AT LEAST 50 FEET IN ADVANCE OF THE MID-BLOCK CROSSWALK.
6. TEMPORARY PAVEMENT MARKING FOR CROSSWALK LINES.
7. LIMIT WORK TO ONE QUADRANT AT A TIME TO MINIMIZE PEDESTRIAN DISRUPTION.

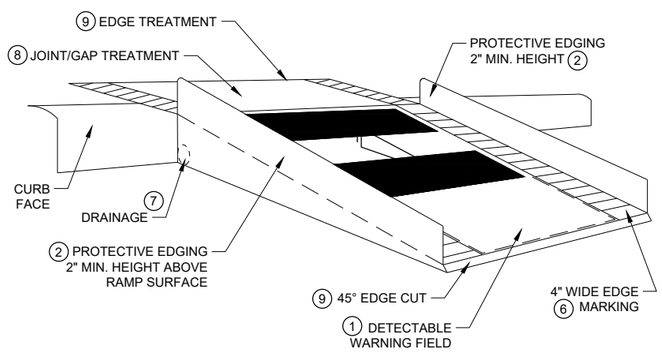
LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE II BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW INTENSITY FLASHING)
- TYPE III BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW INTENSITY FLASHING)
- UNDER PEDESTRIAN TRAFFIC
- WORK AREA
- PEDESTRIAN CHANNELIZATION DEVICE
- DIRECTION OF TRAFFIC

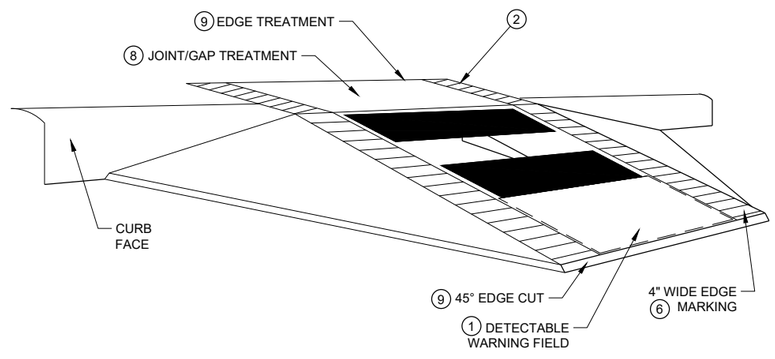
TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION



TEMPORARY CURB RAMP PARALLEL TO CURB



WITH PROTECTIVE EDGE



WITH SIDE APRON

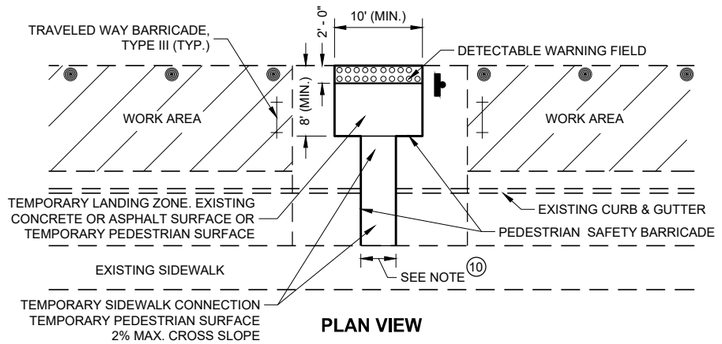
TEMPORARY CURB RAMP PERPENDICULAR TO CURB

GENERAL NOTES

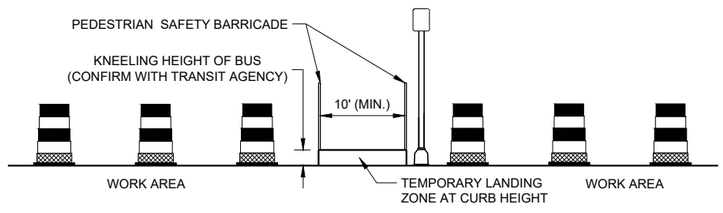
NOTIFY THE BUS COMPANY 7 DAYS IN ADVANCE OF THE BUS STOP RELOCATION.

ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

1. CURB RAMPS SHALL BE 48" MIN. WIDTH WITH A A FIRM, STABLE AND SLIP RESISTANT SURFACE. INSTALL CONTRASTING DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS. REFER TO SDD 08D05, SHEET "e".
2. PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.
3. DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
4. CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.
5. CLEAR SPACE OF 48" X 48" SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.
6. THE CURB RAMP WALKWAY EDGE SHALL BE MARKED WITH A YELLOW COLOR, 4" WIDE MARKING, UNLESS A CONTRASTING DETECTABLE WARNING FIELD IS PROVIDED.
7. DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.
8. LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN ½" WIDTH.
9. CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED ½". LATERAL EDGES SHALL BE VERTICAL UP TO ¼" HIGH AND BEVELED AT 1:2 BETWEEN ¼" AND ½".
10. 5" WIDE MIN. WITH PEDESTRIAN SAFETY BARRICADE, 10' WIDE MIN. WITHOUT PEDESTRIAN SAFETY BARRICADE.



PLAN VIEW



PROFILE VIEW

TEMPORARY BUS STOP PAD

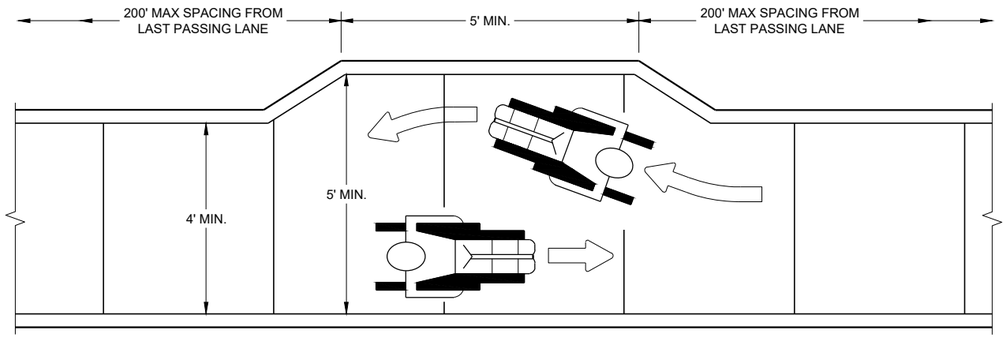
LEGEND

- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE
- WORK AREA

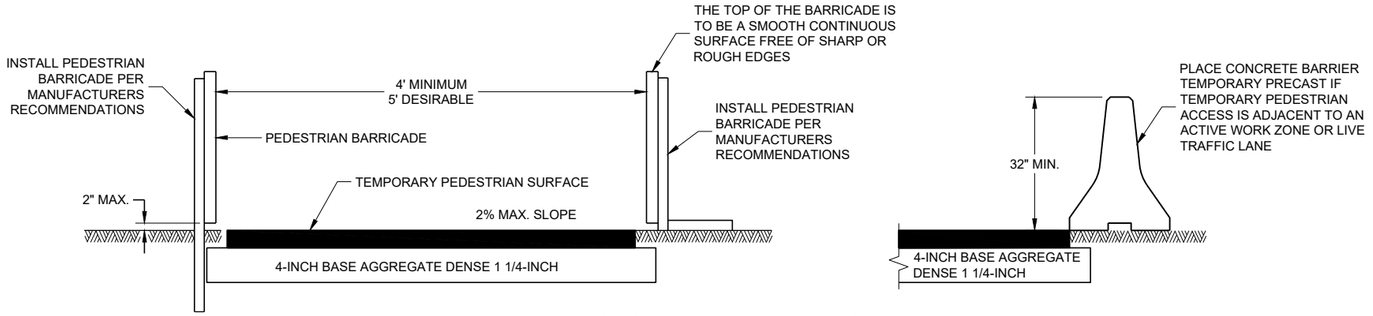
TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA 148

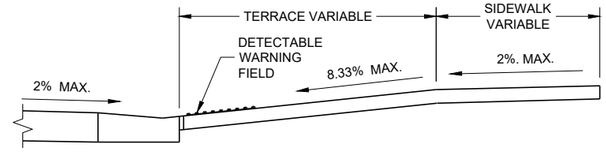
6
SDD 15D30 - 06b



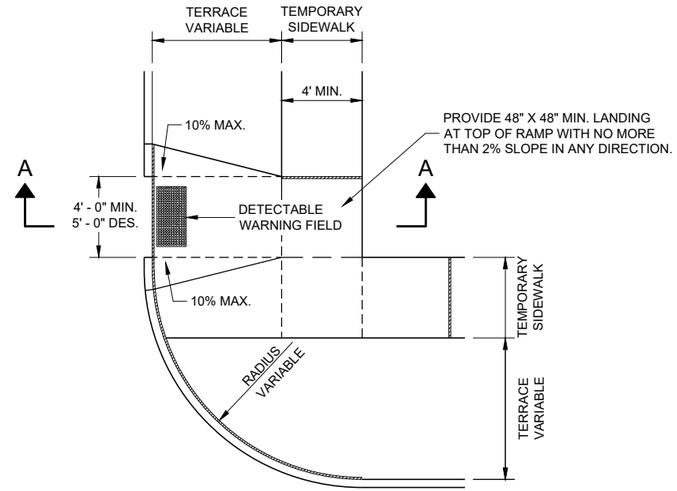
NARROW SIDEWALK PASSING DETAIL



TEMPORARY PEDESTRIAN ACCESS



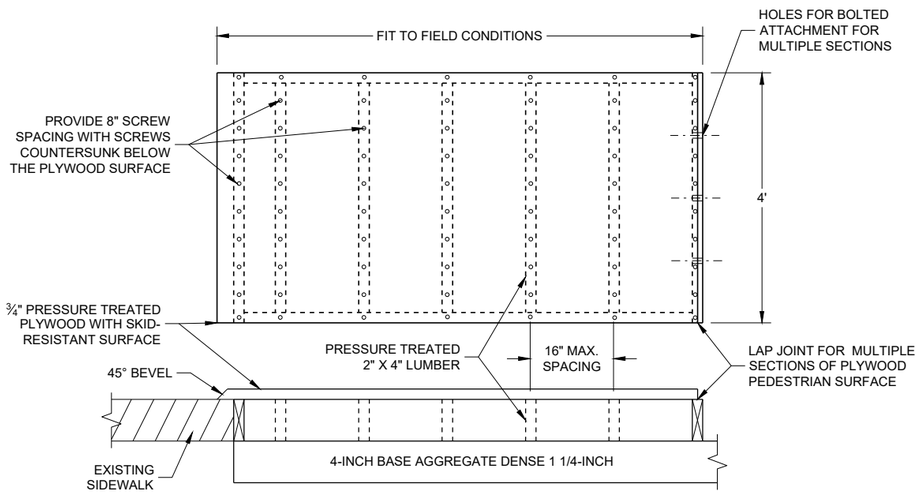
SECTION A - A



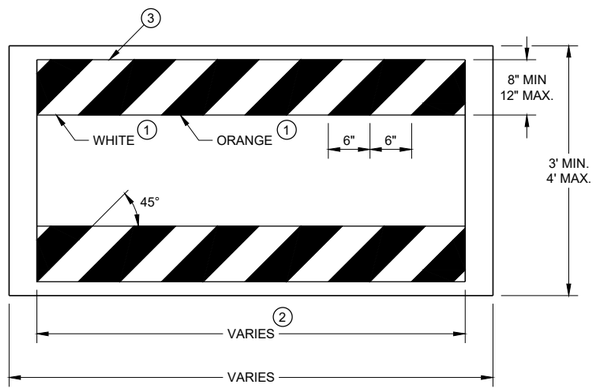
PLAN VIEW

TEMPORARY TYPE 3 RAMP

(OUTSIDE OF CROSSWALK AREA)



TEMPORARY PEDESTRIAN SURFACE PLYWOOD



TEMPORARY PEDESTRIAN BARRICADE *

GENERAL NOTES

BARRICADE DEVICE SELECTED FROM APPROVED PRODUCT LIST

(1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

(2) SHEETING REQUIRED ON MORE THAN 50% OF BARRICADE WIDTH.

(3) PLACE SHEETING ON BOTH SIDES OF THE BARRICADE.

* USE THIS DETAIL FOR SHEETING PLACEMENT REFERENCE.

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

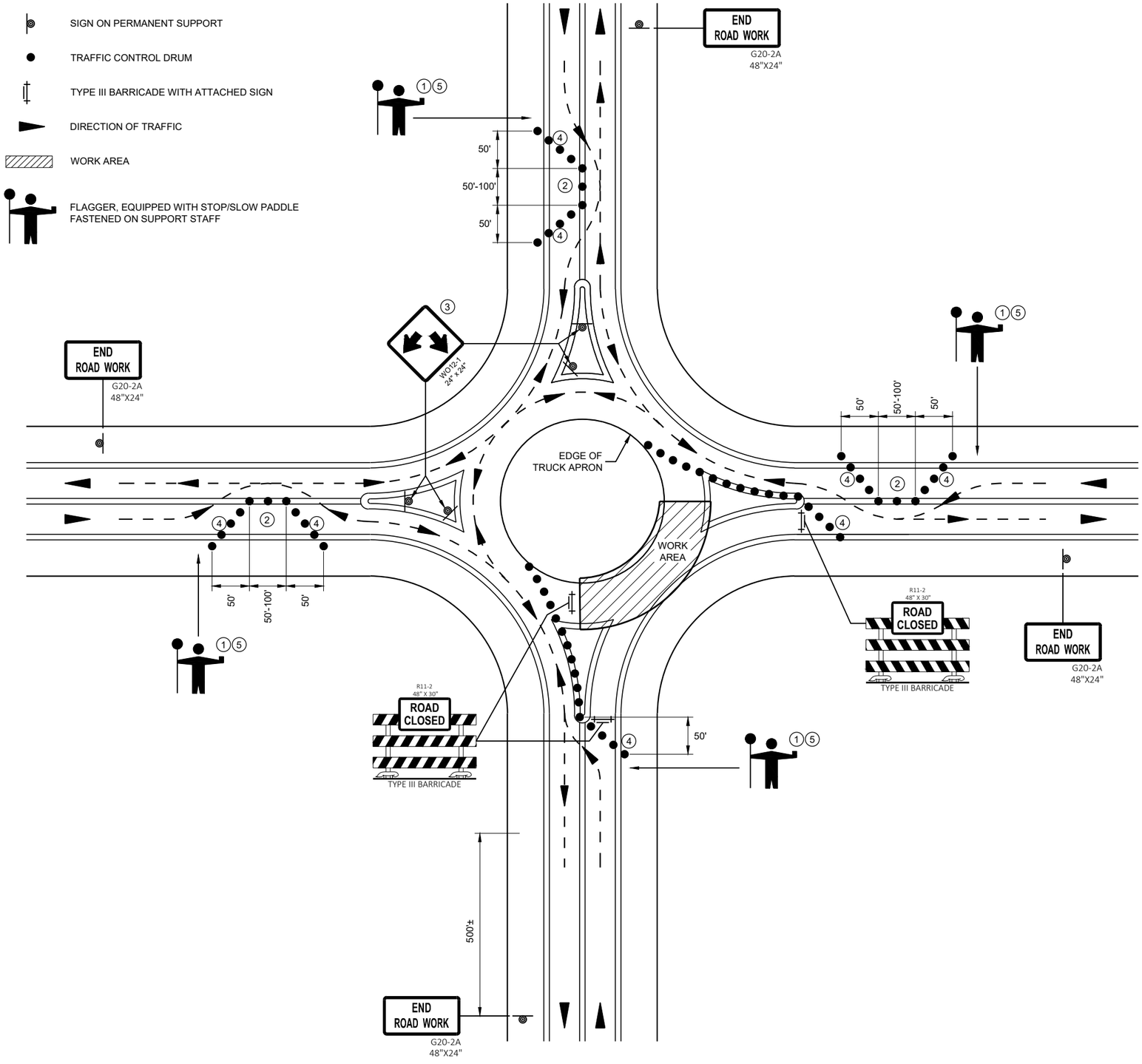
SDD 15D30 - 06c

6

SDD 15D30 - 06c

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAFFIC
- WORK AREA
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF



GENERAL NOTES

ALL SIGNS ARE 48"X48" BLACK ON ORANGE UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY THE REGIONAL TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ONLY ONE QUADRANT OF TRAFFIC SHALL BE RELEASED AT A TIME.

FLAGGERS SHALL CONTROL TRAFFIC ON ALL APPROACHES OF THE ONE-LANE ROUNDABOUT. ONE FLAGGER SHALL BE DESIGNATED LEAD FLAGGER.

NIGHT TIME WORK REQUIRES ADDITIONAL LIGHTING AT FLAGGER STATION(S).

1. FLAGGERS SHALL BE IN DIRECT RADIO CONTACT AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING IS NOT IN EFFECT, COVER OR REMOVE ALL TEMPORARY TRAFFIC CONTROL SIGNS.
2. ADJUST CHANNELIZING DEVICES TO ACCOMMODATE FOR TURNING RADIUS OF LARGE VEHICLES AS DIRECTED BY THE ENGINEER.
3. GUIDE SIGN WITH ROAD NAMES MAY BE USED IN LIEU OF THE DOUBLE ARROW (WO12-1) SIGN.
4. THE TWO- WAY TAPER SHOULD BE 50 FEET USING 5 EQUALLY SPACED DRUMS.
5. FOLLOW SDD 15C12 FOR FLAGGING AND ADVANCE WARNING.

RECOMMENDED REDUCED DRUM SPACING WITHIN ROUNDABOUT

MPH	DRUM SPACING (FT)
0-40	25
45-55	50

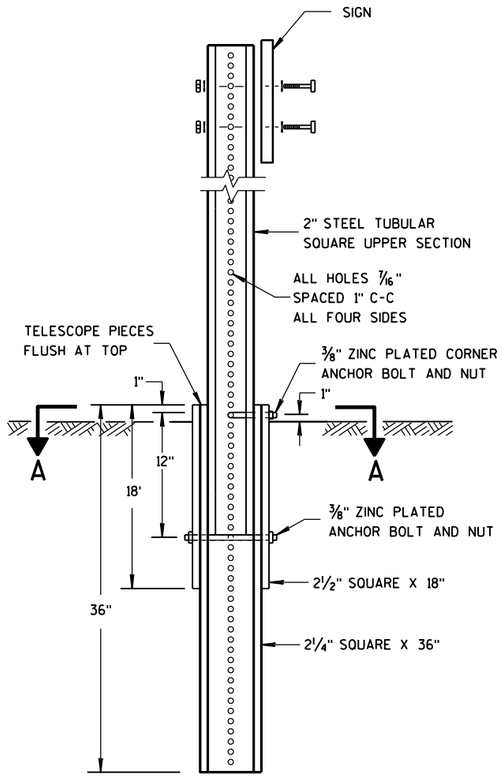
TRAFFIC CONTROL, FLAGGING OPERATION, ROUNDABOUT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

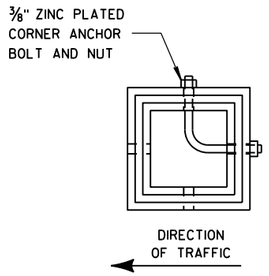
APPROVED
May 2020 — DATE
/S/ Andrew Heidtke — STATEWIDE WORK ZONE T SAFETY ENGINEER
FHWA

SDD 15D37 - 03

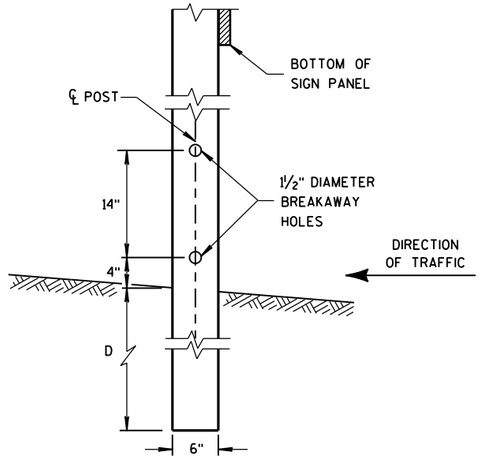
SDD 15D37 - 03



DETAIL OF TUBULAR STEEL SIGN POST



SECTION A-A



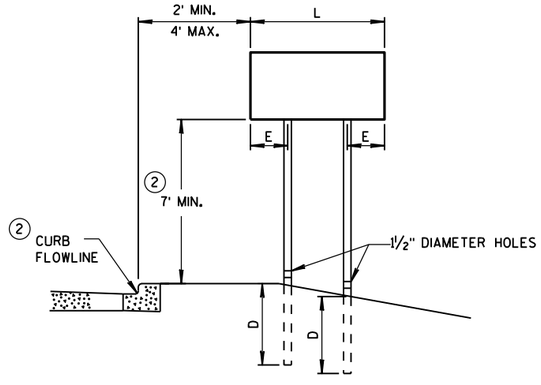
4"x6" WOOD POST MODIFICATION

GENERAL NOTES

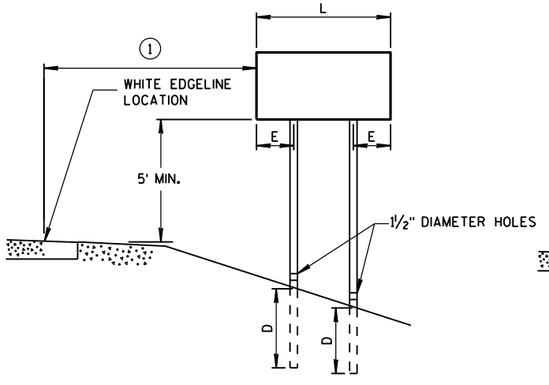
(1) 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.

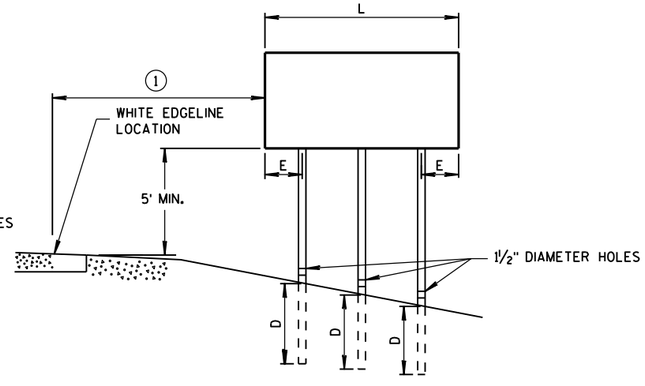
(2) THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK AND NO PARKING, VERTICAL CLEARANCE MAY BE REDUCED TO 5 FOOT MINIMUM. OFFSET OF SIGNS IS MEASURED FROM THE CURB FLOWLINE.

(3) FOR SIGNS REQUIRING 4 POSTS, SPACE INTERMEDIATE POSTS EVENLY.



URBAN AREA





RURAL AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SQ. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EQUAL TO 18	2
GREATER THAN 18 LESS THAN OR EQUAL TO 27	3

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SQ. FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE).

SIGNS LARGER THAN 27 SQ. FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

WOOD POST EMBEDMENT DEPTH

AREA OF SIGN INSTALLATION (SQ. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

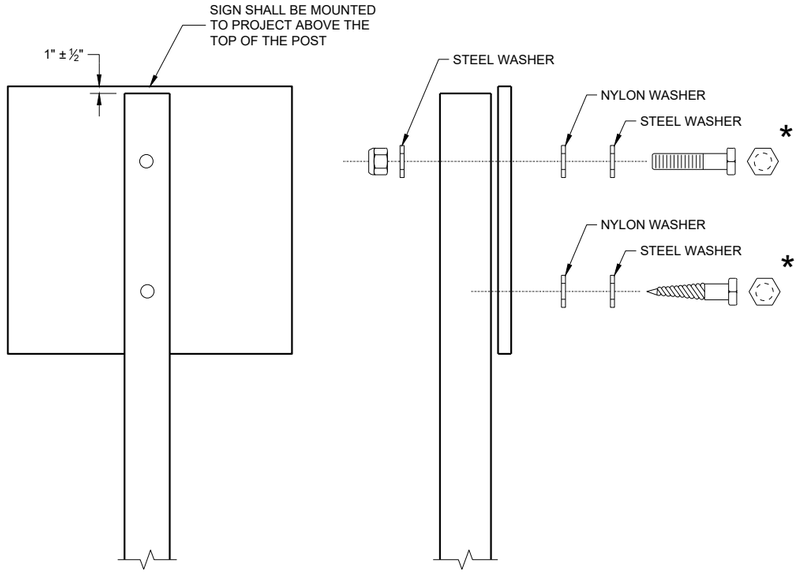
POST SPACING REQUIREMENTS		NUMBER OF WOOD POSTS REQUIRED
L	E	
48" OR LESS AND LESS THAN 20 SQ. FT.	-	1
LESS THAN 60"	12"	2
60" TO 120"	L/5	2
GREATER THAN 120" LESS THAN 168"	12"	3
168" AND GREATER	12"	4

SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6
S.D.D. 15 D 38-2a



NUTS, BOLTS AND LAGS USED FOR MOUNTING SIGNS SHALL HAVE HEXAGONAL HEADS AND SHALL BE EITHER:

A. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: A 153, CLASS D, OR SC 3
B. ELECTRO-GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: B 633, TYPE III, SC 3

THREADS ON BOLTS AND NUTS SHALL BE MANUFACTURED WITH SUFFICIENT ALLOWANCE FOR THE CADMIUM PLATE OR GALVANIZED COATING TO PERMIT THE NUTS TO RUN FREELY ON THE BOLTS.

WOOD POST (4" x 6")
LAG SCREWS - ⅜" x 3"
MACHINE BOLTS - 5/16" x 6 ½" OR 7" LENGTH W/NUTS

SQUARE STEEL POST (2" x 2")
MACHINE BOLTS - ⅜" x 3 ¼" LENGTH W/NUTS
RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE 0.720 - 0.765 INCH, GRIP RANGE 0.042 - 0.375 INCH

WASHERS (ALL POSTS) -
1 ¼" O.D. x ⅜" I.D. x 1/16" STEEL
1 ¼" O.D. x ⅜" I.D. x 0.080 NYLON

* TWO DIFFERENT FASTENING SYSTEMS ARE SHOWN FOR ILLUSTRATION PURPOSES. ON ANY INDIVIDUAL SIGN, EITHER ONE OR THE OTHER SYSTEM SHALL BE USED. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

6

6

SDD 15D38 - 02b

SDD 15D38 - 02b

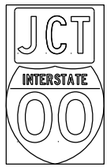
ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

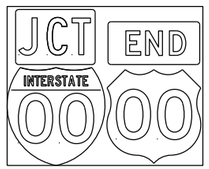
APPROVED
June 2017
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

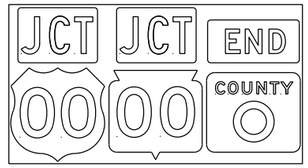
TYPICAL ASSEMBLIES



J1-1



J1-2



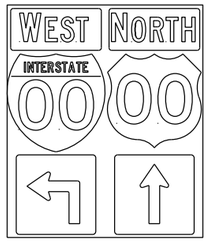
J1-3



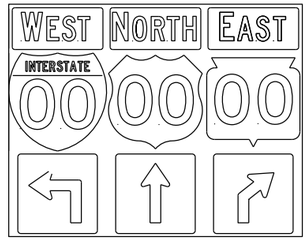
JR1-1



J2-1



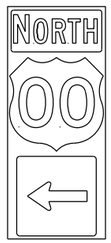
J2-2



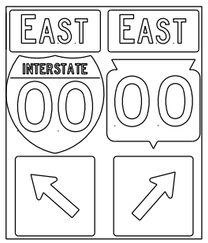
J2-3



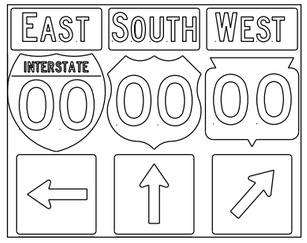
JV
(Typical Vertical J-Assembly
See Note 10 and 11)



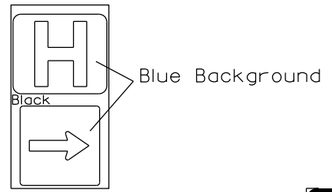
J3-1



J3-2



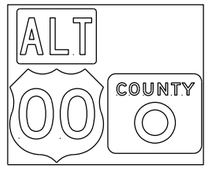
J3-3



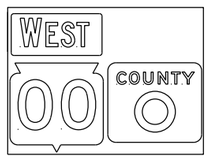
JH-1



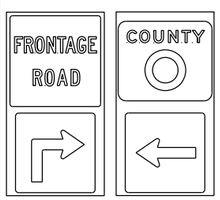
J4-1



J4-2

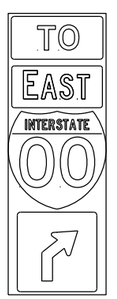


J4-2

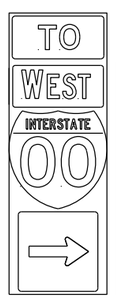


J12-1

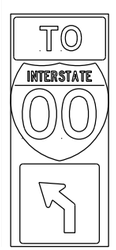
J13-1



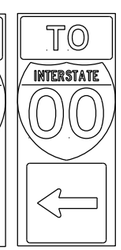
J32-1



J33-1



J22-1



J23-1



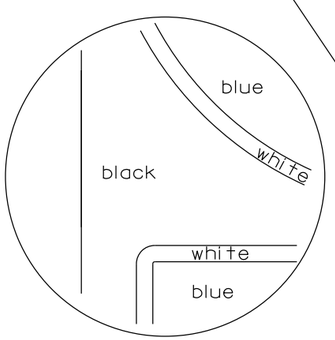
JR13-1

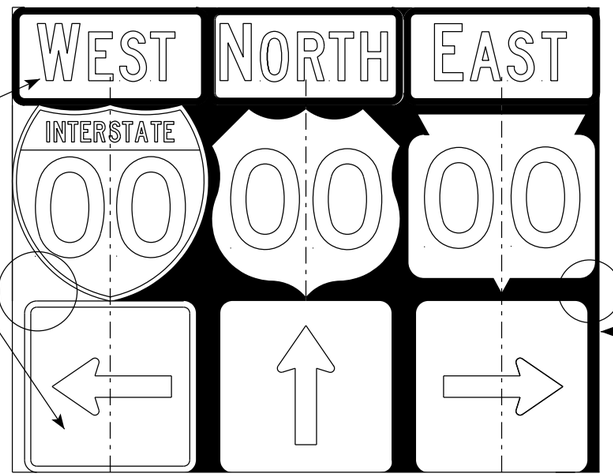


JR23-1



JR99-1





NOTES

1. Signs are Type II - Type H Reflective
2. Color:
   Background - Black Non-reflective
   Message - see Note 5
3. Message Series - See Note 5
4. Corners shall be square or rounded if base material is plywood. If base material is metal the corners shall be rounded.
5. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
6. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 Interstate marker shall be blue.
7. Single panel j-assemblies shall only be used with route marker shields that are same size. If the route marker shields are different size use multiple piece component.
8. Route assemblies that have 24 inch route shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
9. Route assemblies that have 36 inch shields and have dimensions greater than 48 inchs (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
10. All Vertical J Assemblies are given a Sign Code of JV
11. For JV Assemblies that have a mixture of Interstate and non Interstate shields, arrows and cardinals shall be white on blue.

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/21 PLATE NO. A2-1S.9

PROJECT NO:

SHEET NO: 153 E

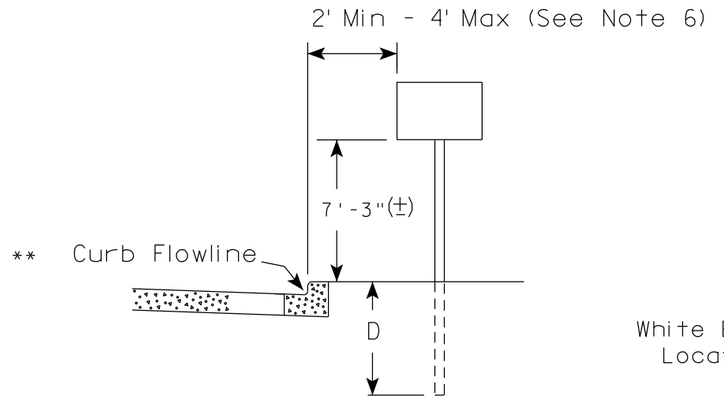
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WISDOT/CADDS SHEET 42

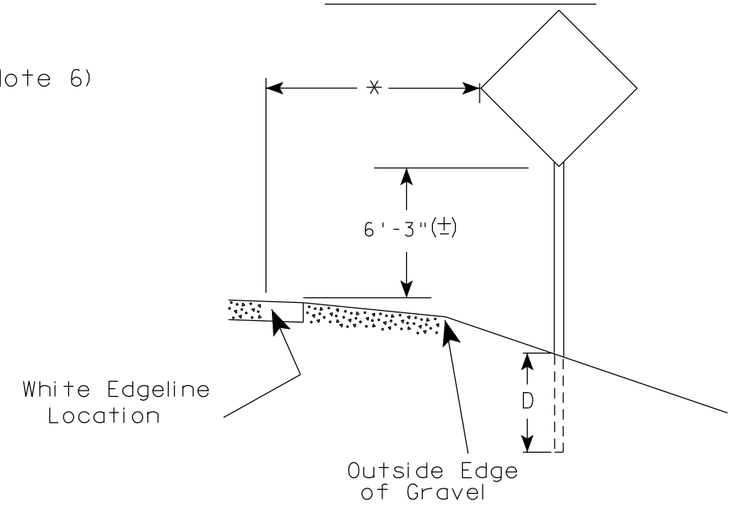
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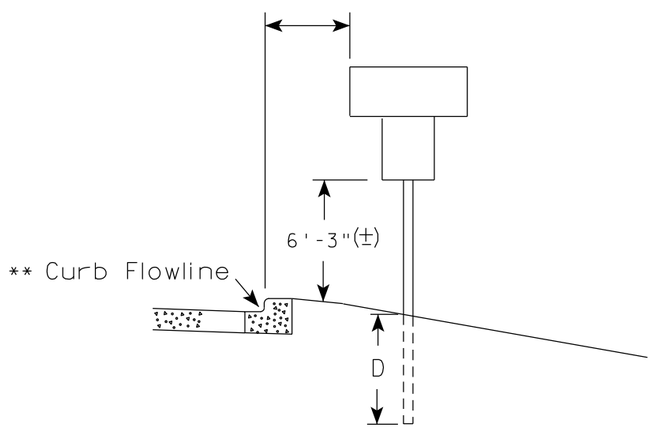
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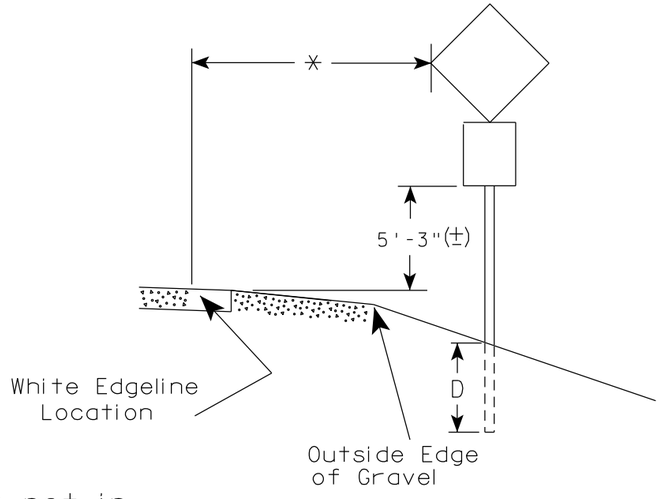
URBAN AREA



RURAL AREA (See Note 2)







** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq.Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on or behind barrier wall, see A4-10 sign plate.
   The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
6. The (±) tolerance for mounting height is 3 inches.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directd by the Engineer.

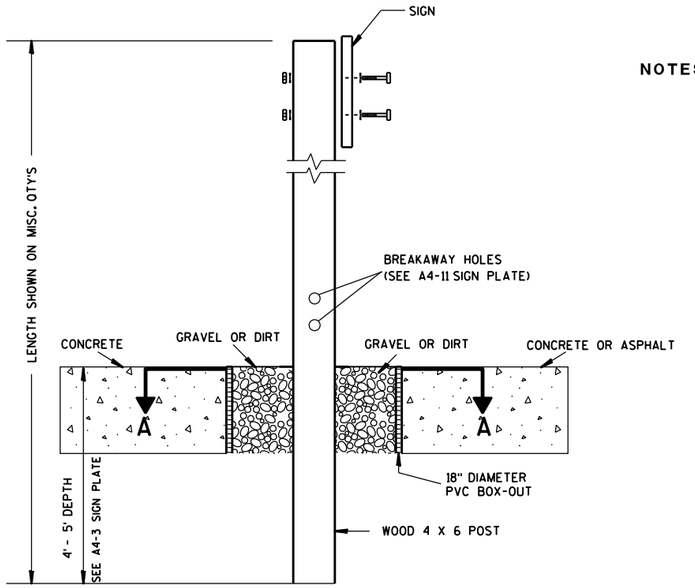
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/13/2020 PLATE NO. A4-3.22

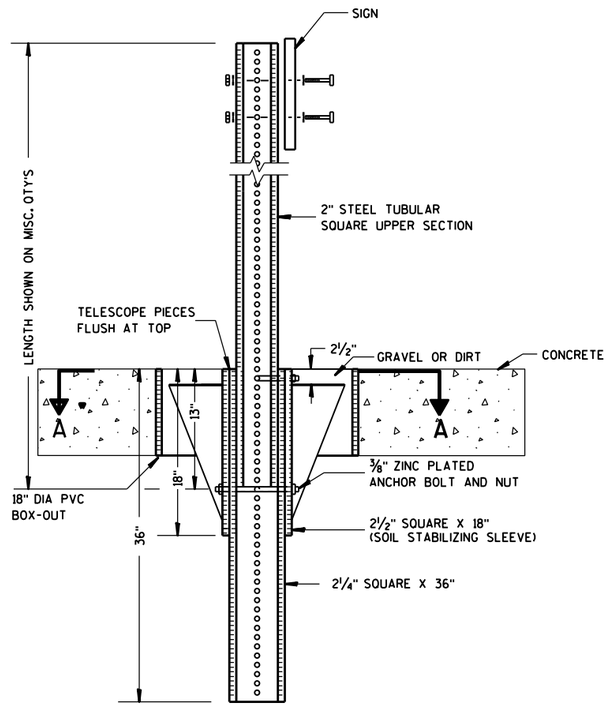
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 154	E



ELEVATION VIEW

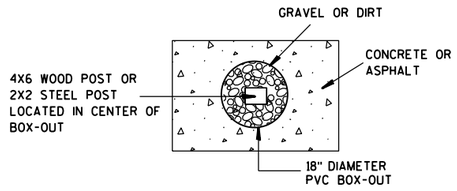
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

NOTES:
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

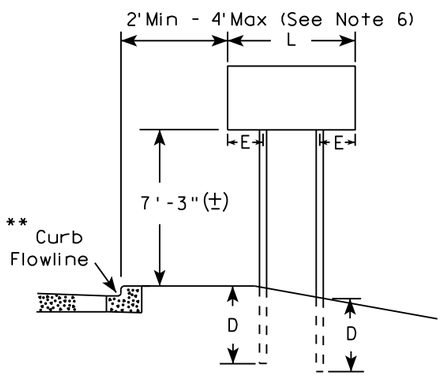
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

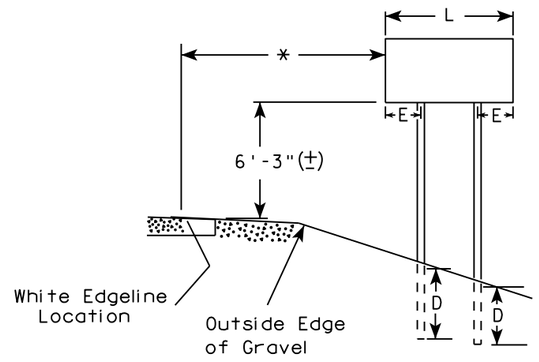
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

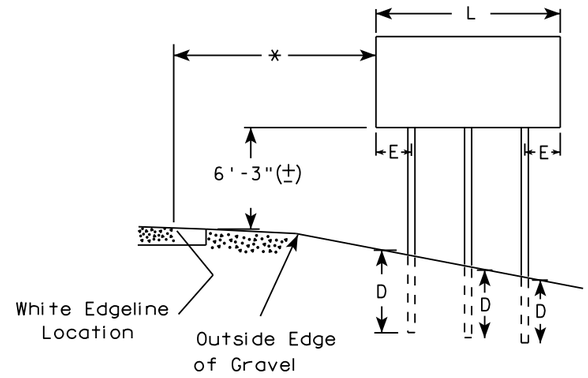
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

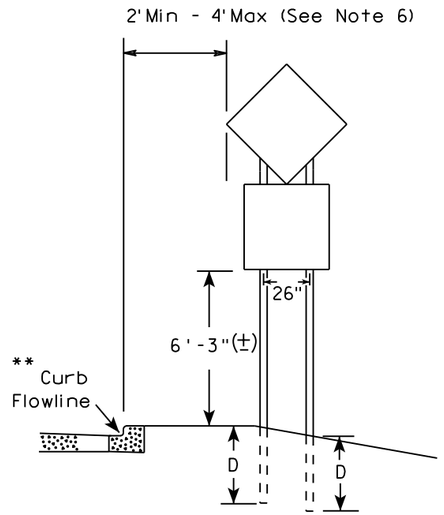
URBAN AREA



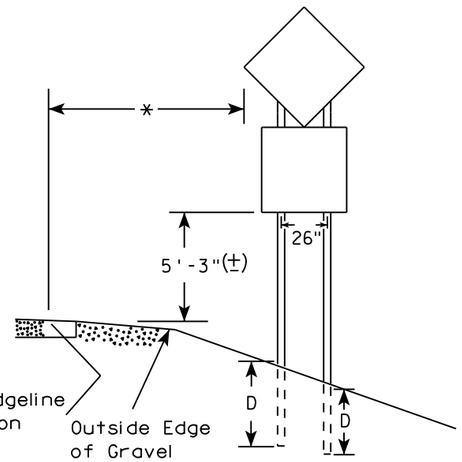
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)		
	L	E
***	Greater than 48" Less than 60"	12"
	60" to 108"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 108" to 144"	12"

GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. J-Assemblies are considered to be one sign for mounting height.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

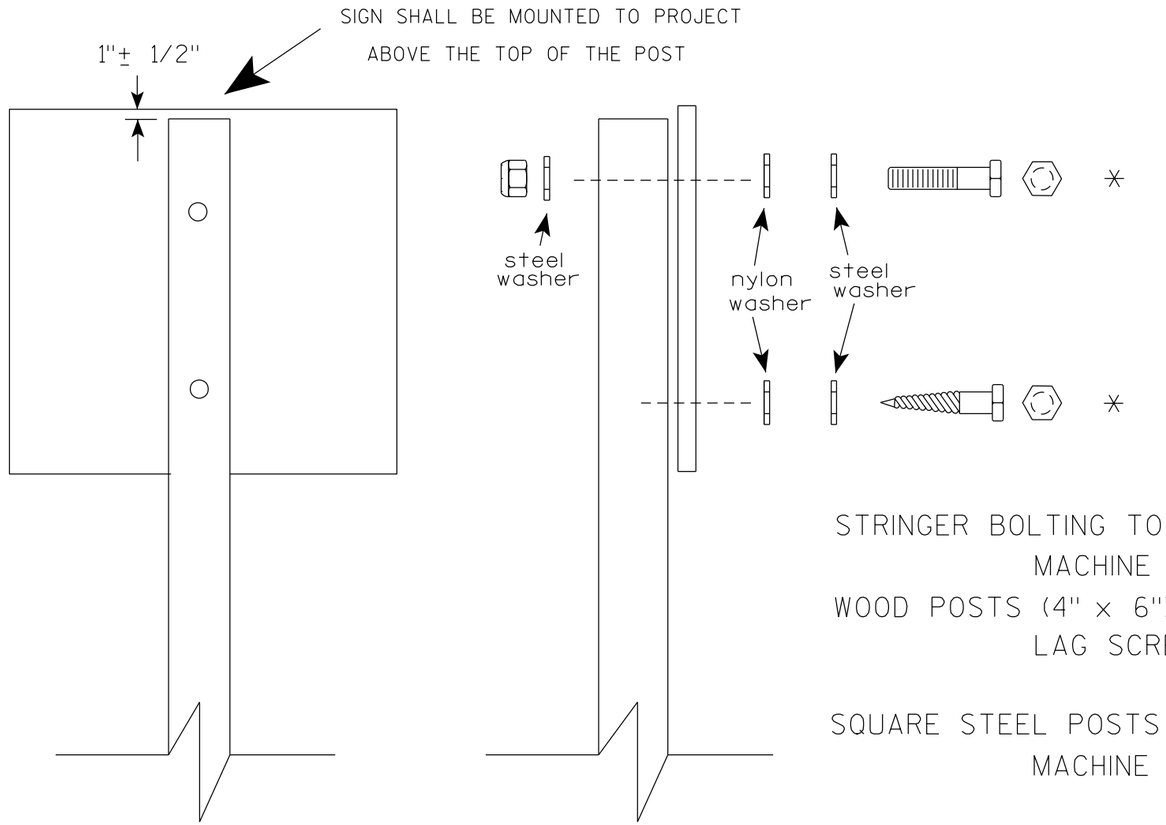
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-4.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 156	E



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3

b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts

WOOD POSTS (4" x 6")

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

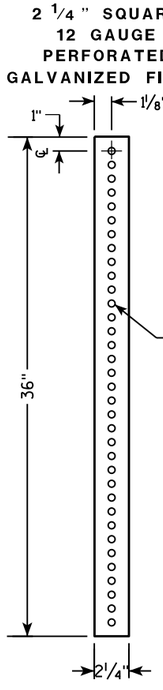
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

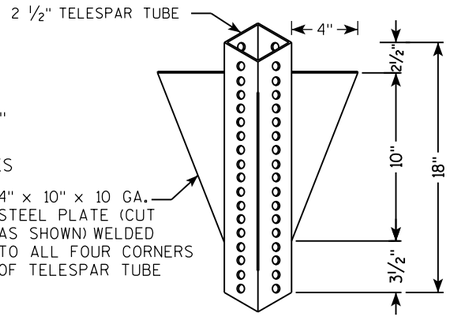
DATE 4/1/2020 PLATE NO. A4-8.9

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

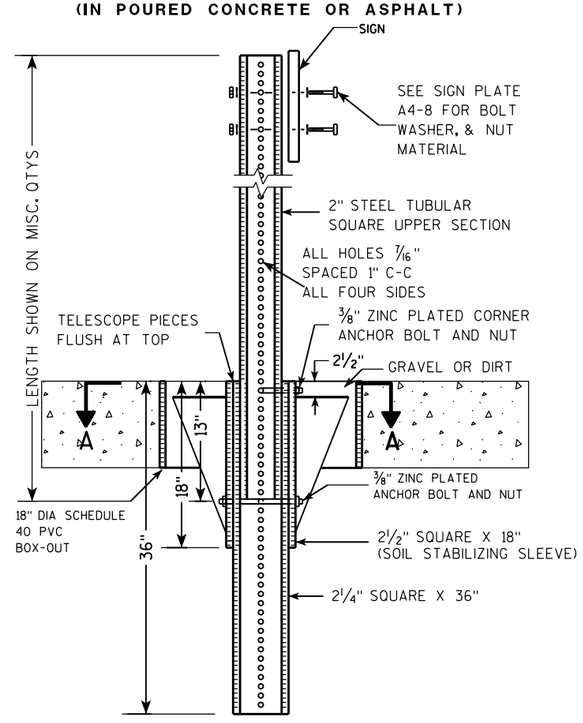
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



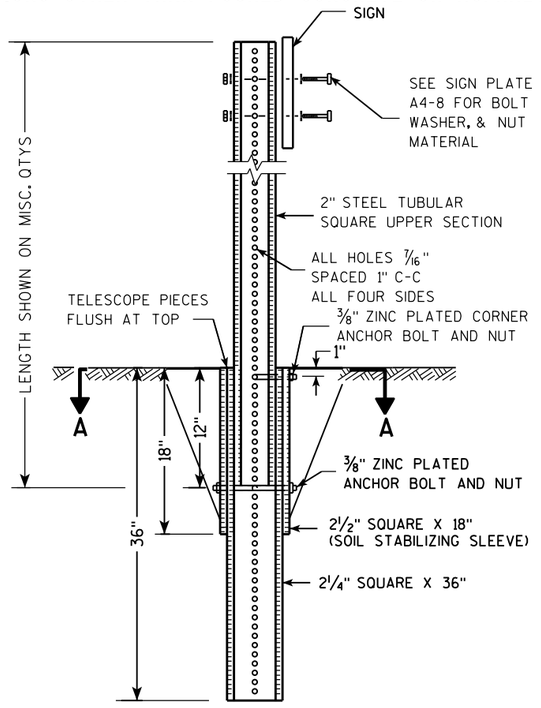
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

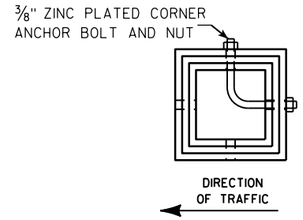


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

TUBULAR STEEL
SIGN POST
A4-9

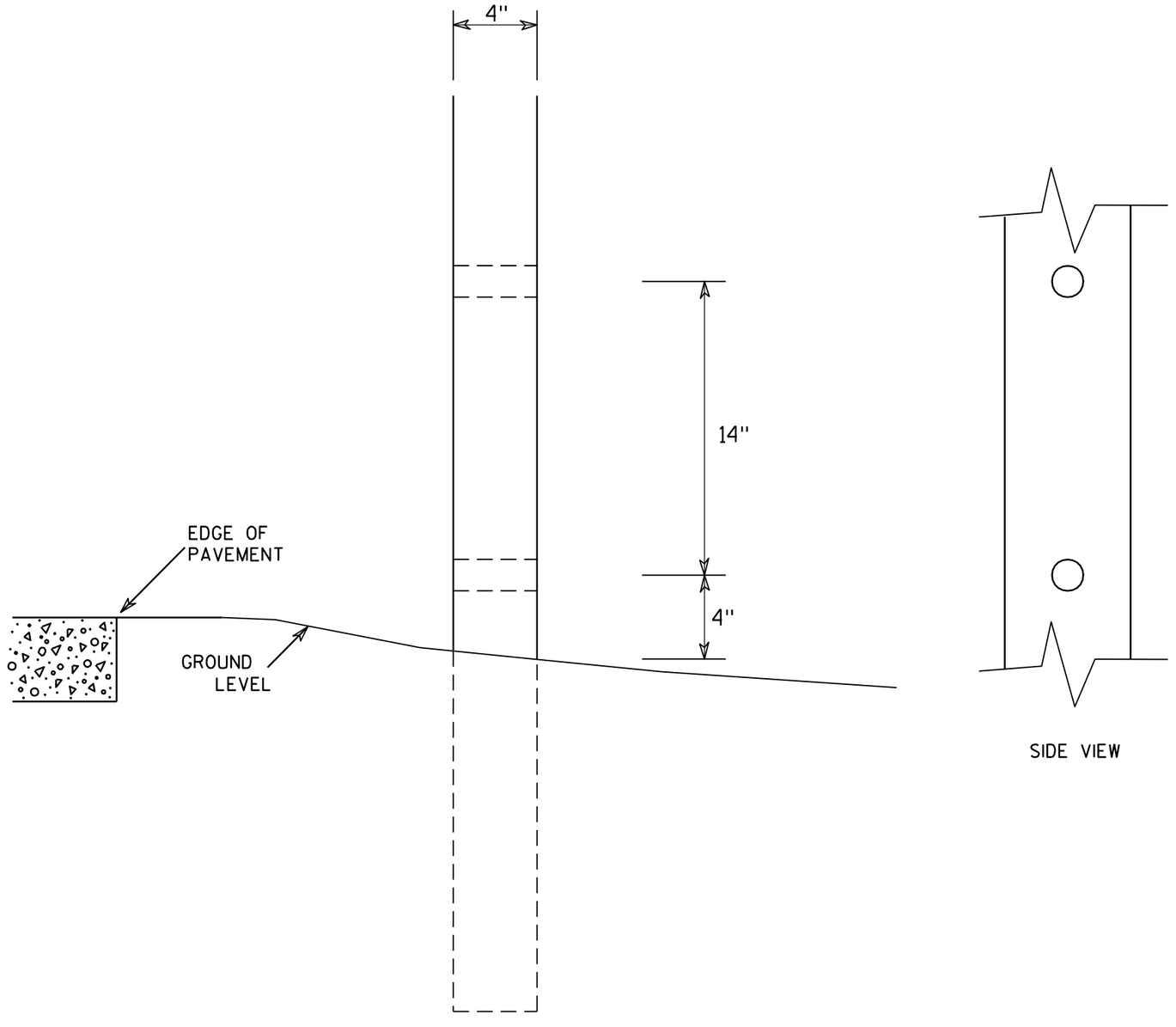
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE : 05-FEB-2015 17:09 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000
WISDOT/CADDS SHEET 42



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

7

7

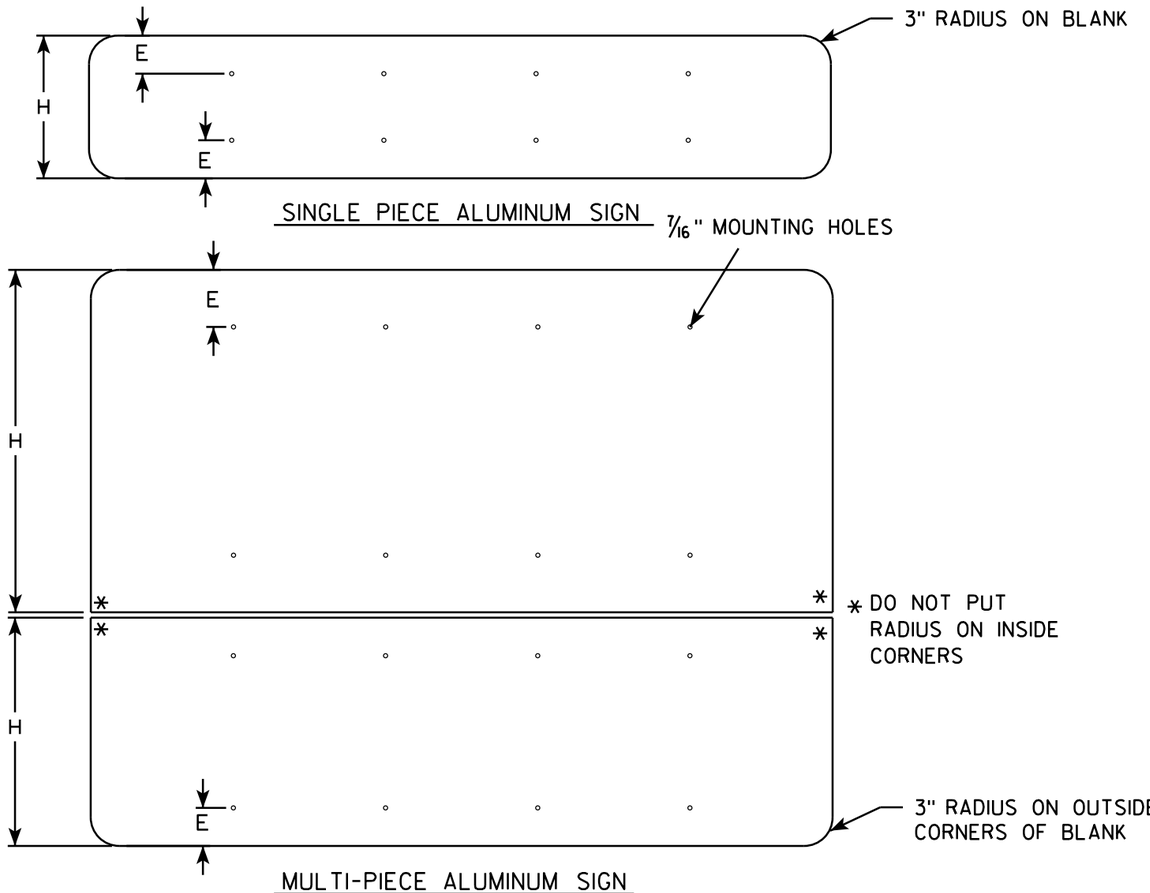
4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang for State Traffic Engineer

DATE 3/27/97 PLATE NO. A4-11.2

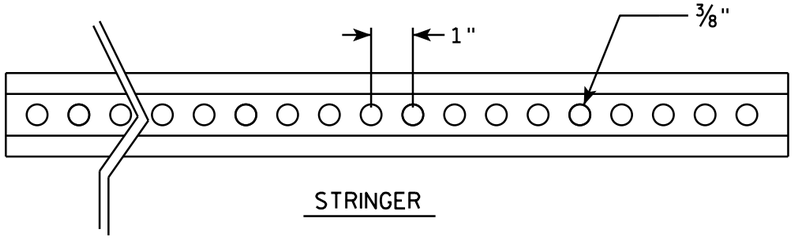
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 159	E



GENERAL NOTES

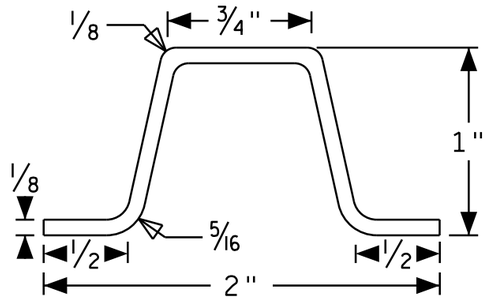
- ALL SIGNS OVER 60" IN WIDTH SHALL HAVE A 3" RADIUS ON THE OUTSIDE CORNERS OF THE ALUMINUM BLANK.
- MOUNTING HOLES SHALL BE 7/16" DIAMETER.
- SEE CHART FOR HOLE SPACING REQUIREMENTS
- FOR SIGN PANELS WITH DIMENSION (H) 36" AND OVER, DIMENSION E SHALL BE 6"
- FOR SIGN PANELS WITH DIMENSION (H) UNDER 36", DIMENSION E SHALL BE 4"
- SIGN STRINGER MATERIAL SHALL CONSIST OF STEEL CHANNEL POST SECTIONS, WEIGHING 1.12 LBS/FT IN ACCORDANCE WITH SECTION 633.2.1 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.
- SEE SIGN PLATE A4-8 FOR SIGN STRINGER BOLTING REQUIREMENTS.

SIGN WIDTH	STRINGER WIDTH	POSTS	HOLE SPACING	MOUNTING HOLES
78"	72"	2	16"	15" 31" 47" 63"
84"	72"	2	17"	16½" 33½" 50½" 67½"
90"	72"	2	18"	18" 36" 54" 72"
96"	90"	2	19"	19½" 38½" 57½" 76½"
102"	90"	2	20"	21" 41" 61" 81"
108"	90"	2	21"	22½" 43½" 64½" 85½"
114"	108"	3	15"	12" 27" 42" 57" 72" 87" 102"
120"	108"	3	16"	12" 28" 44" 60" 76" 92" 108"
126"	108"	3	17"	12" 29" 46" 63" 80" 97" 114"
132"	126"	3	18"	12" 30" 48" 66" 84" 102" 120"
138"	126"	3	19"	12" 31" 50" 69" 88" 107" 126"
144"	126"	3	20"	12" 32" 52" 72" 92" 112" 132"

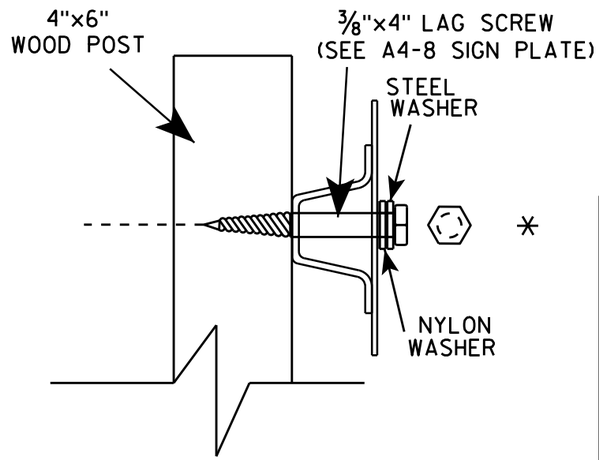


STRINGER

CROSS SECTION VIEW OF CHANNEL



POST MOUNTING



SIGN STRINGER MOUNTING REQUIREMENTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

for State Traffic Engineer

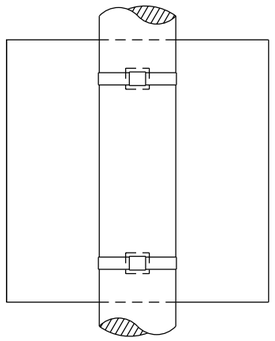
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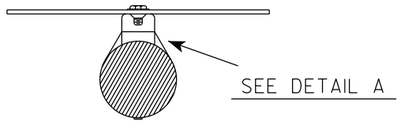
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

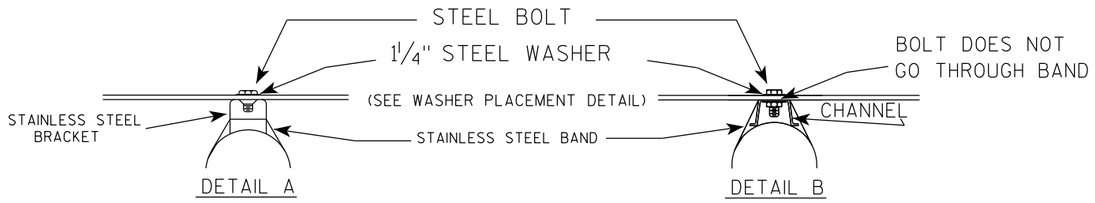
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BANDING

SINGLE SIGN



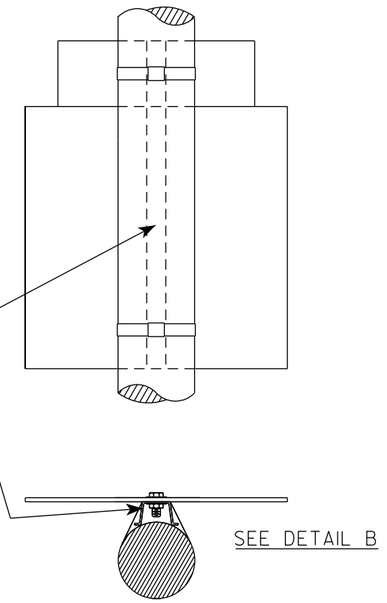




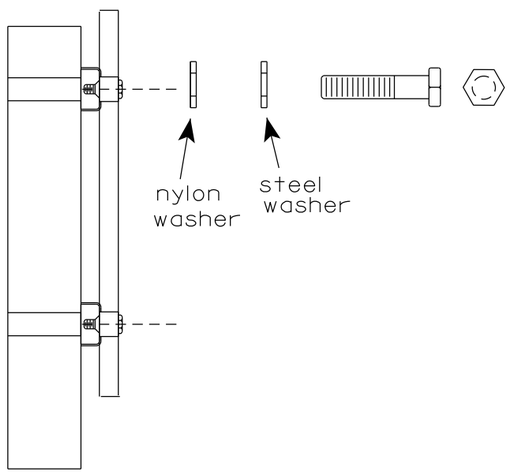
GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be ¾" in width and 0.025" thickness.
4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

"J" ASSEMBLY



WASHER PLACEMENT



WASHERS (ALL POSTS) -
1-1/4" O.D. X ⅜" I.D. X 1/16" STEEL
1-1/4" O.D. X ⅜" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

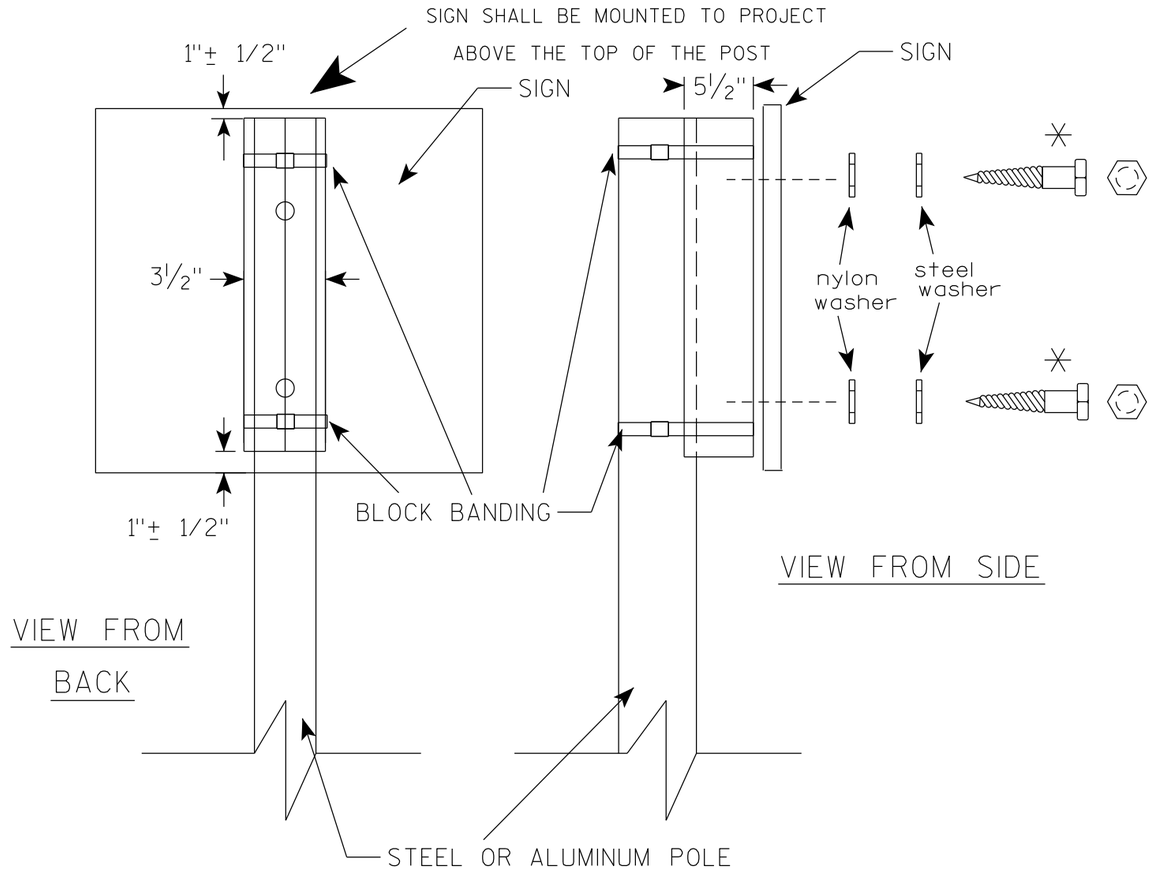
DATE 6/10/19 PLATE NO. A5-9.4

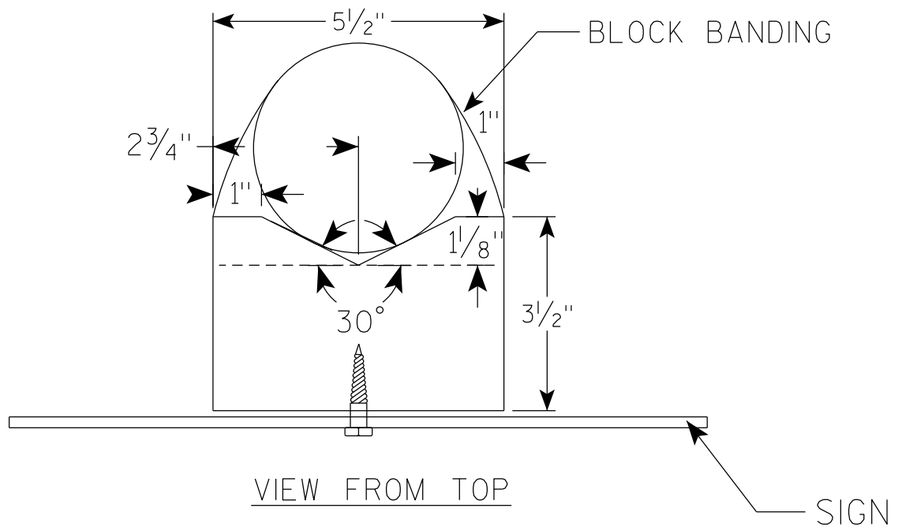
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 161	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A59.dgn PLOT DATE : 10-JUN 2019 4:10 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

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GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, ¾" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE ⅜" X 2½"

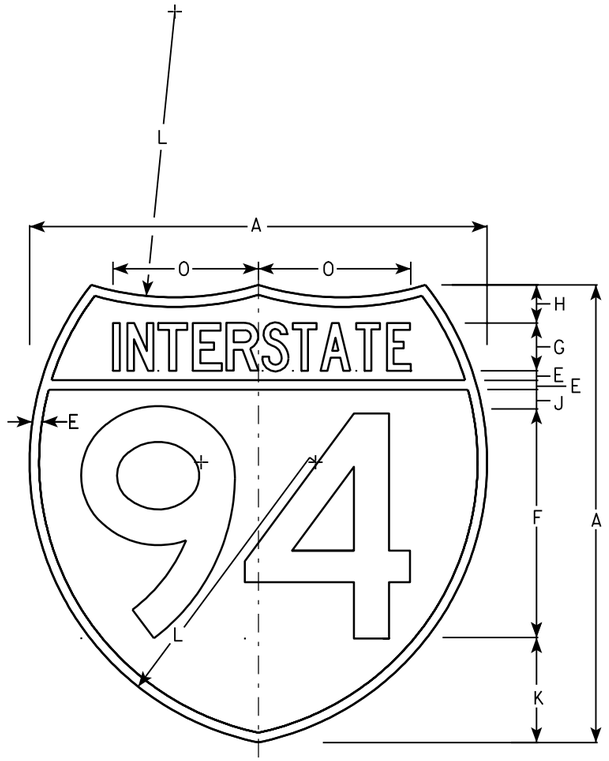
BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

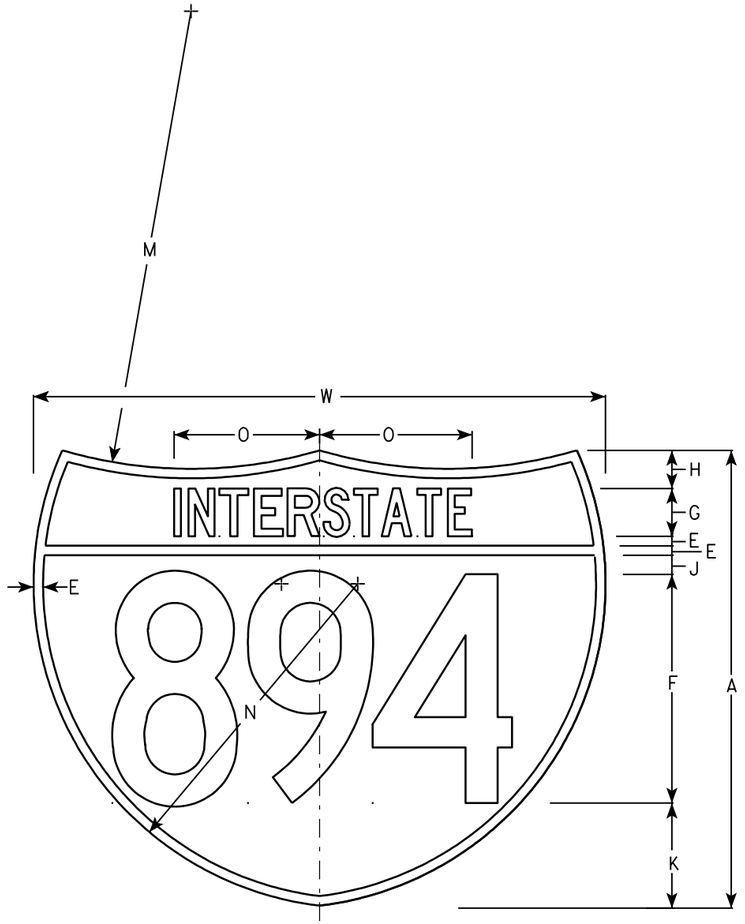
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 6/10/19 PLATE NO. A5-10.2

PROJECT NO: | SHEET NO: 162 | E



M1-1



M1-1A

NOTES

1. Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Top Red - Bottom Blue (See Note 6)
   Message - White - See Note 6
3. Message Series - See note 5
4. Substitute appropriate numerals & ajust spacing as per plate A10-1.
5. M1-1 - Numerals - D
   Interstate - C
   M1-1A - All copy - C
6. Permanent Signs
   Message - Type H Reflective
   Detour or other temporary signs
   Background - Reflective
   Message - Reflective

Metric equivalent for these signs are:

SIZE	M1-1	SIZE	M1-1A
1			
2	600 mm X 600 mm	2	600 mm X 750 mm
3	900 mm X 900 mm	3	900 mm X 1125 mm
4	900 mm X 900 mm	4	900 mm X 1125 mm
5	900 mm X 900 mm	5	900 mm X 1125 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	M1-1 Area sq. ft.	M1-1A Area sq. ft.	M1-1 Area m2	M1-1A Area m2
1																													
2	24				1/2	12	2 1/2	2		1	5 1/2	15	24	17	7 7/8								30			3.13	3.91	.36	.46
3	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05
4	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05
5	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05

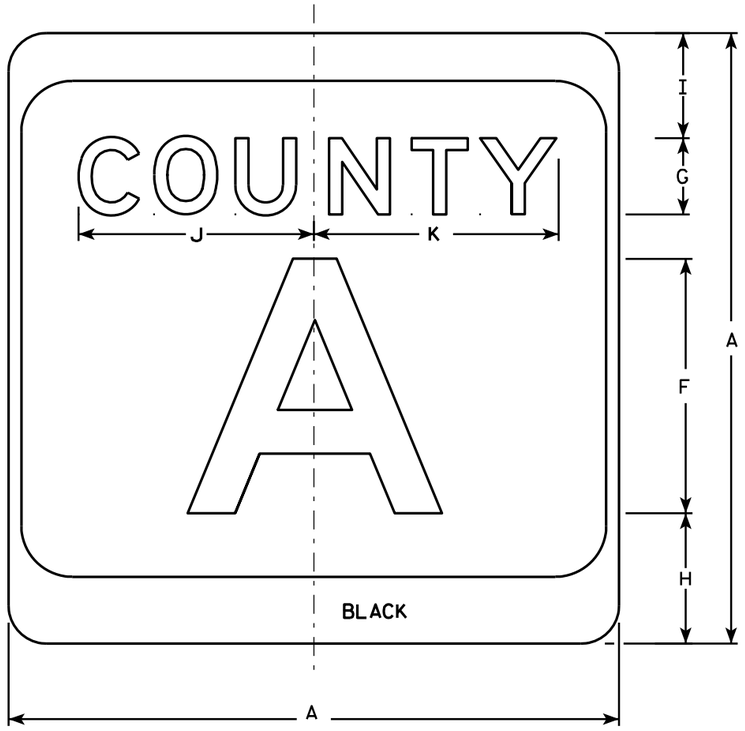
INTERSTATE ROUTE MARKER
M1-1 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

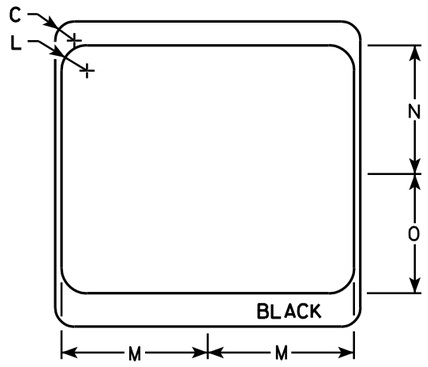
APPROVED Matthew R Rauch
for State Traffic Engineer

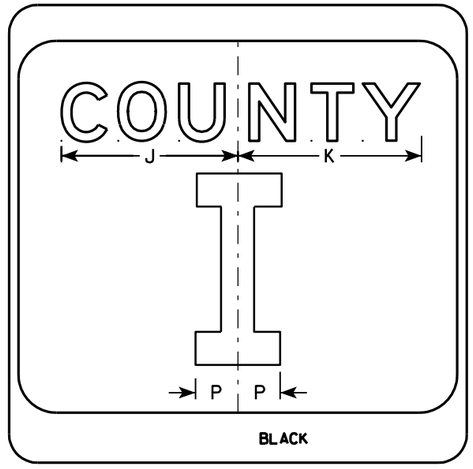
DATE 08/23/05 PLATE NO. M1-1.8

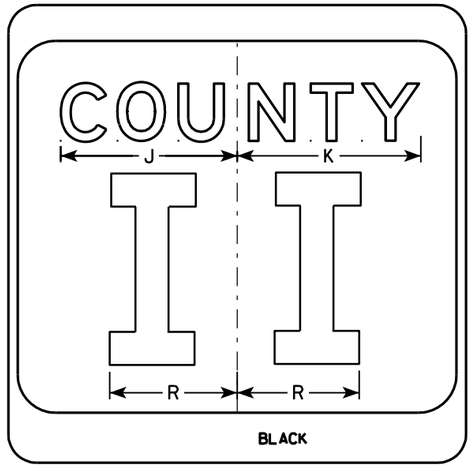
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 163	E



M1-5A







NOTES

1. Sign is Type II - see Note 7 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 7
   Message - Black
3. Message Series - see Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Message Series E for 1 letter.
   Message Series D for 2 letters unless message is too big then Series C.
   Message Series C for 3 letters unless message is too big then Series B.
6. Substitute appropriate letters & optically center to achieve proper balance.
7. Permanent Signs
   Background - Type H Reflective
   Detour or temporary Signs
   Background - Reflective

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
3	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
5	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0

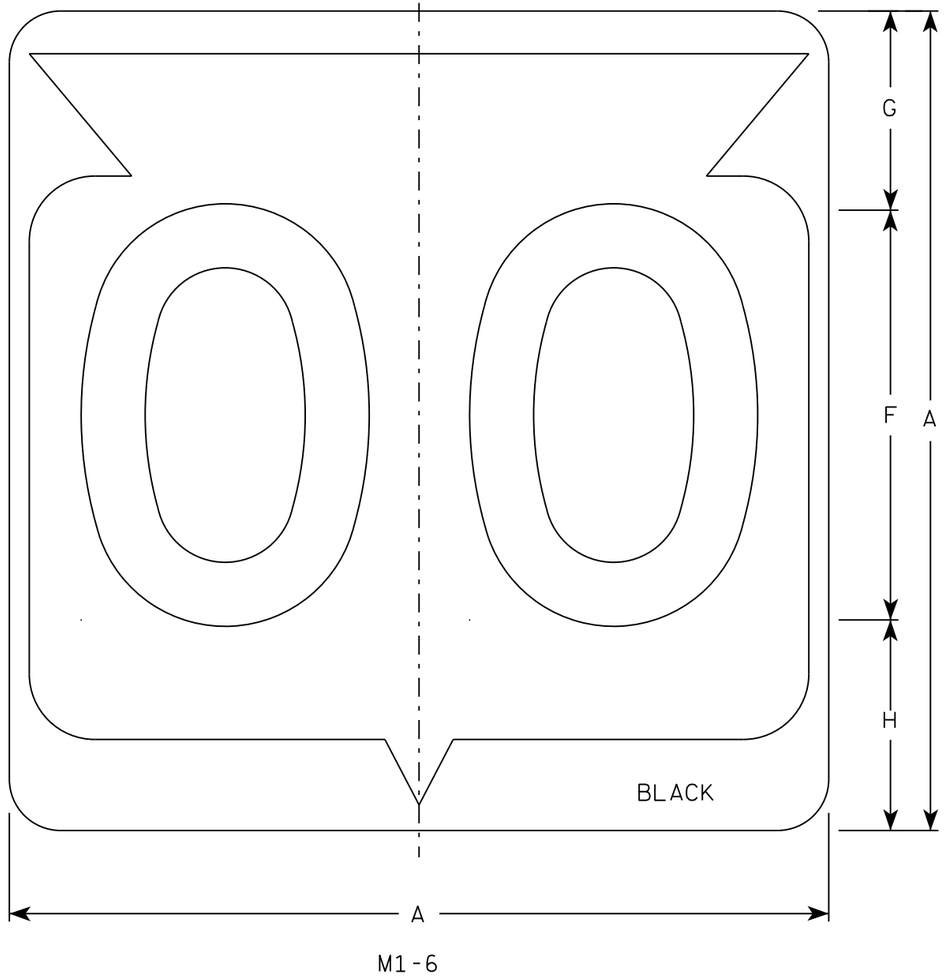
CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/27/11 PLATE NO. M1-5A.8

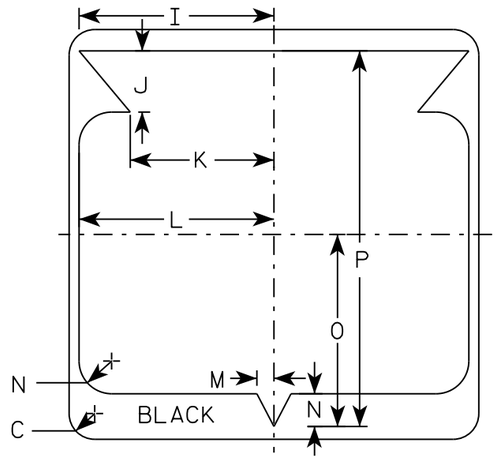
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 164	E



M1-6

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D except 3 number signs Series C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0

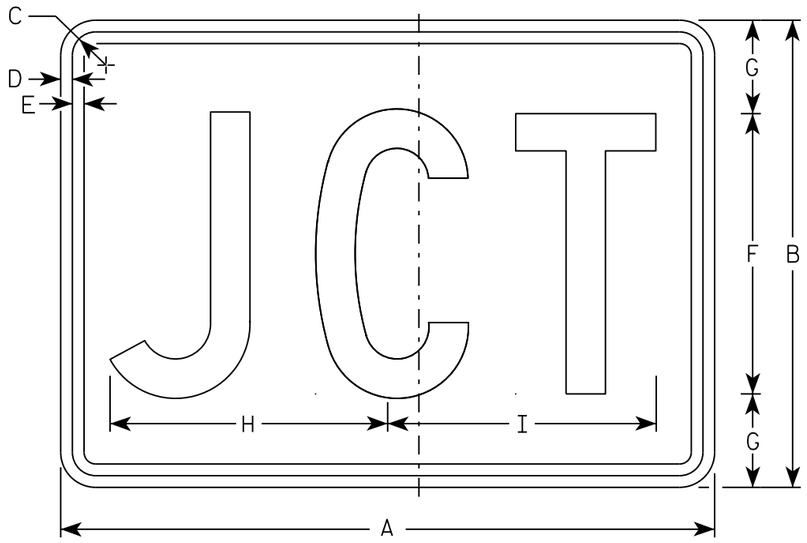
STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

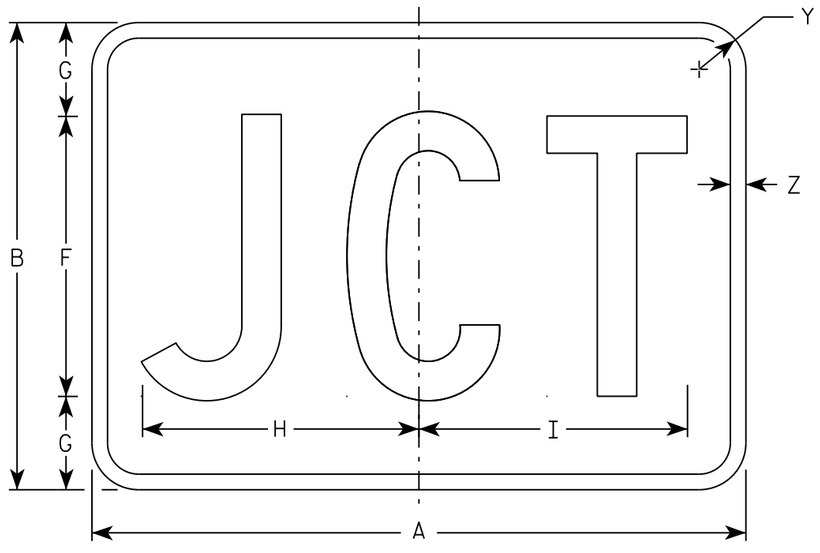
APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/16/18 PLATE NO. M1-6.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 165 | E



M2-1
MM2-1
MP2-1



MB2-1
MK2-1
MN2-1
MR2-1

NOTES

1. Sign is Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M2-1 Background - White
   Message - Black
   MB2-1 Background - Blue
   Message - White
   MK2-1 Background - Green
   Message - White
   MM2-1 Background - White
   Message - Green
   MN2-1 Background - Brown
   Message - White
   MP2-1 Background - White
   Message - Blue
   MR2-1 Background - Brown
   Message - Yellow

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21	15	1 1/8	3/8	3/8	9	3	8 7/8	8 5/8																1 1/2	1/2	2.20
3	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
4	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
5	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40

STANDARD SIGN
M2-1

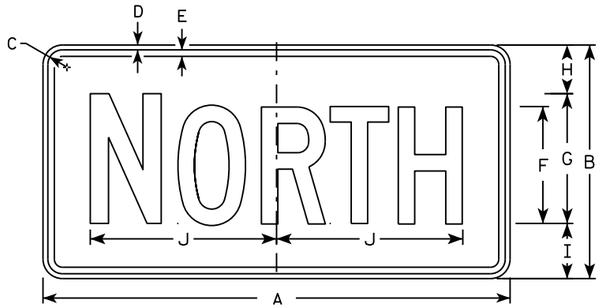
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

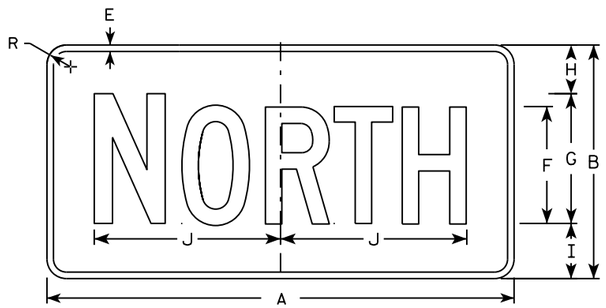
DATE 10/15/15 PLATE 166 12-1.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M21.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 4.864603:1.000000



M3-1
MM3-1
MP3-1



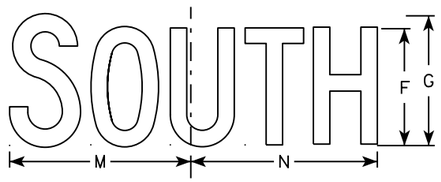
MB3-1
MK3-1
MN3-1



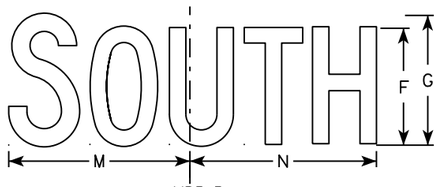
M3-2
MM3-2
MP3-2



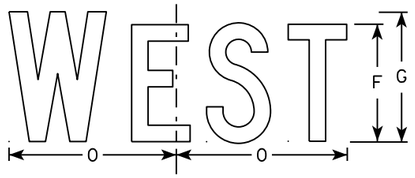
MB3-2
MK3-2
MN3-2



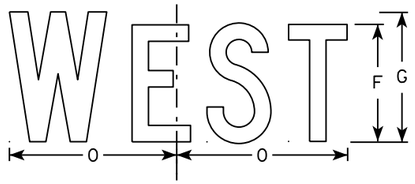
M3-3
MM3-3
MP3-3



MB3-3
MK3-3
MN3-3



M3-4
MM3-4
MP3-4



MB3-4
MK3-4
MN3-4

NOTES

1. All Signs Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M3-1 thru M3-4 Background - White
   Message - Black
   MB3-1 thru MB3-4 Background - Blue
   Message - White
   MK3-1 thru MK3-4 Background - Green
   Message - White
   MM3-1 thru MM3-4 Background - White
   Message - Green
   MN3-1 thru MN3-4 Background - Brown
   Message - White
   MP3-1 thru MP3-4 Background - White
   Message - Blue
6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

STANDARD SIGNS
M3-1 thur M3-4
SERIES

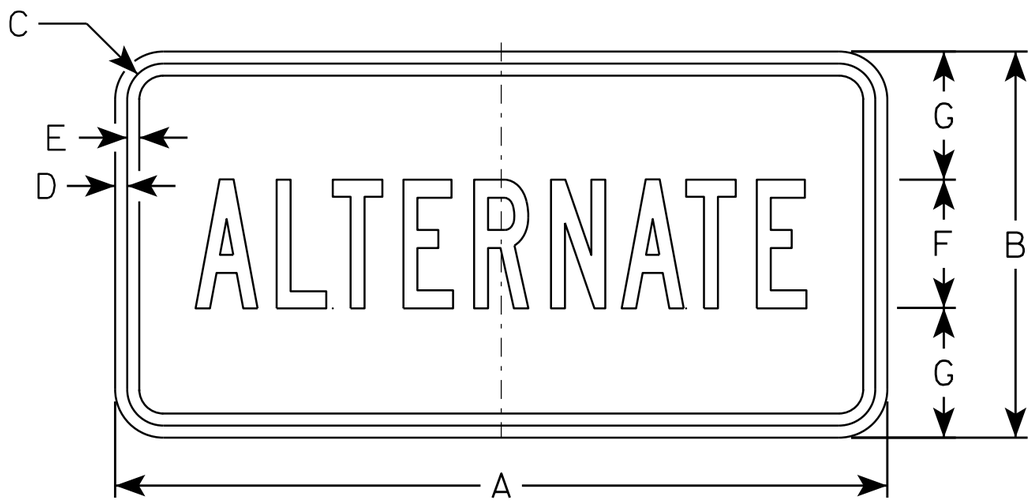
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew P Rauch for State Traffic Engineer

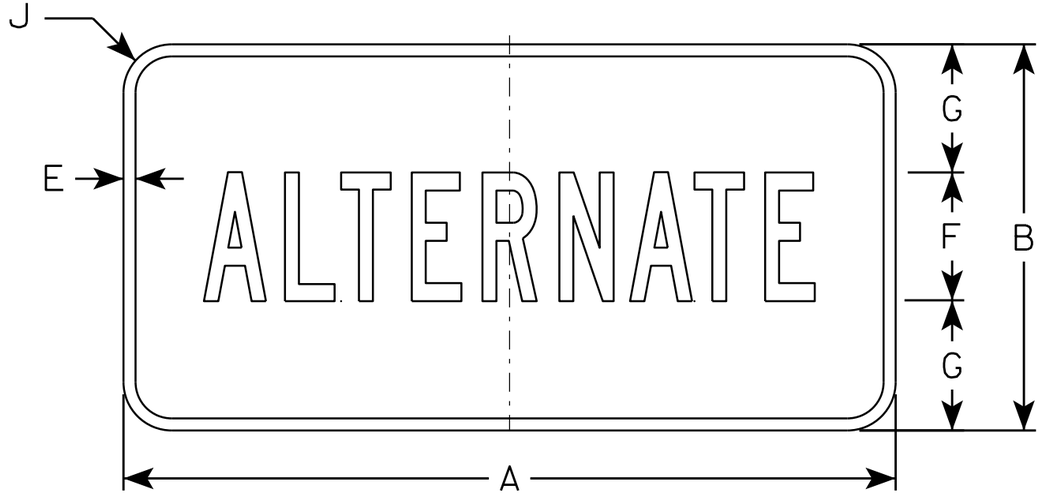
DATE 10/15/15 PLATE NO M3-1.14

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M31.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



M4-1
M04-1



MB4-1

NOTES

1. Sign is Type II - Type H except as Shown
2. Color:
   Background - See Note 5
   Message - See note 5
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M4-1 Background - White
   Message - Black

   MB4-1 Background - Blue
   Message - White

   M04-1 Background - Orange - Type F
   Message - Black

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	4	4	9 3/4	9 1/2	1 1/2																	2.00
3	36	18	1 1/8	3/8	1/2	7	5 1/2	16 3/8	16 1/2	1 1/2																	4.5
4	36	18	1 1/8	3/8	1/2	7	5 1/2	16 3/8	16 1/2	1 1/2																	4.5
5	36	18	1 1/8	3/8	1/2	7	5 1/2	16 3/8	16 1/2	1 1/2																	4.5

STANDARD SIGN
M4-1

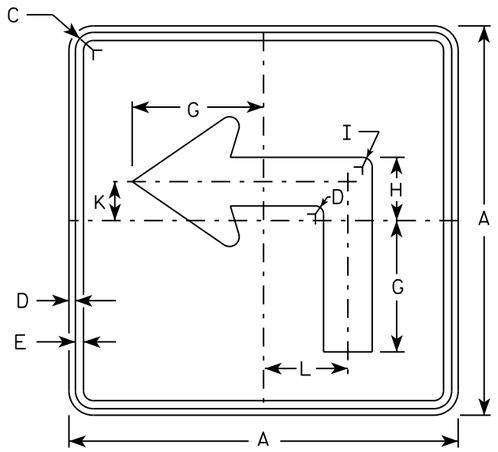
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

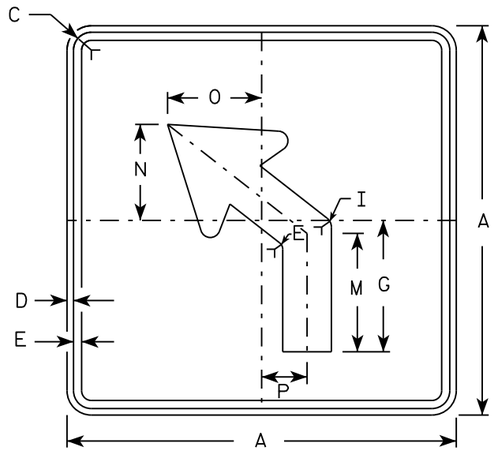
DATE 6/30/14 PLATE 14-1.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

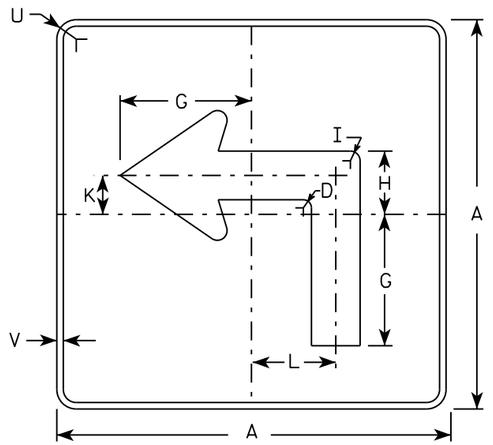
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\M41.DGN PLOT DATE : 30-JUN-2014 15:38 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 4.708937:1.000000
WISDOT/CADDS SHEET 42



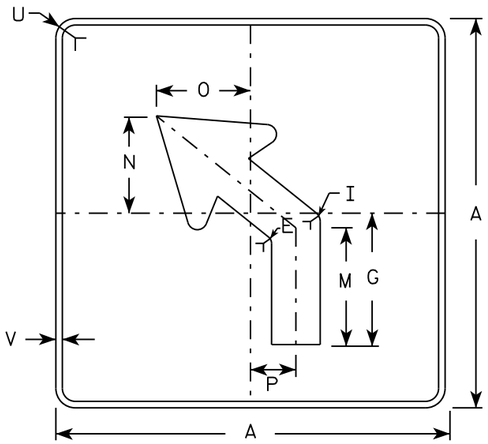
M5-1L
MM5-1L
MO5-1L
MP5-1L



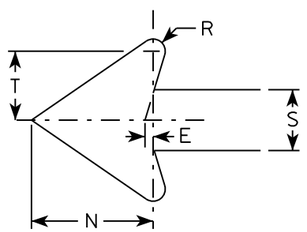
M5-2L
MM5-2L
MO5-2L
MP5-2L



MB5-1L
MK5-1L
MN5-1L
MR5-1L



MB5-2L
MK5-2L
MN5-2L
MR5-2L



NOTES

1. Signs are Type II - Type H reflective except as shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M5-1 and M5-2 Background - White
   Message - Black
   MB5-1 and MB5-2 Background - Blue
   Message - White
   MK5-1 and MK5-2 Background - Green
   Message - White
   MM5-1 and MM5-2 Background - White
   Message - Green
   MN5-1 and MN5-2 Background - Brown
   Message - White
   MO5-1 and MO5-2 Background - Orange - Type F Reflective
   Message - Black
   MP5-1 and MP5-2 Background - White - Type H Reflective
   Message - Blue
   MR5-1 and MR5-2 Background - Brown
   Message - Yellow
5. M5-1R same as M5-1L except arrow points right.
6. M5-2R same as M5-2L except arrow tilts right.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3	1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25

STANDARD SIGN
M5-1 & M5-2

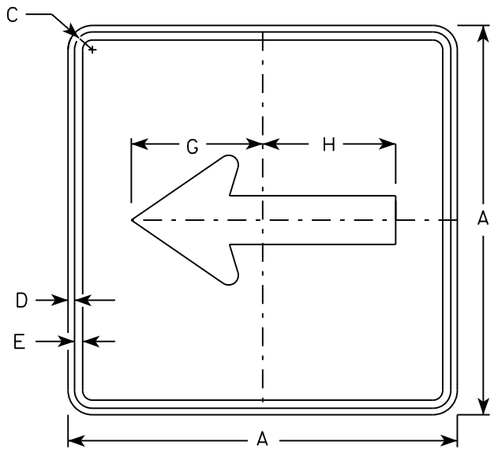
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

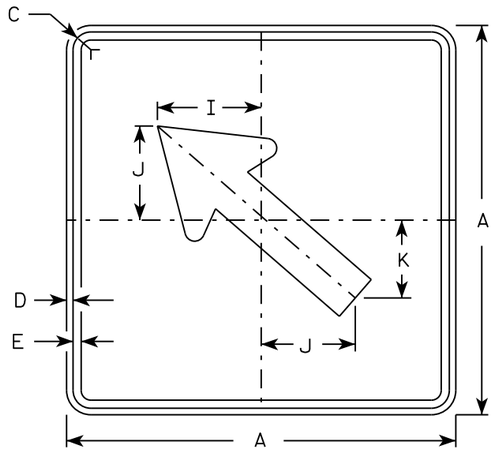
DATE 10/15/15 PLATE NO. M5-1.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M51.DGN PLOT DATE : 01-DEC-2015 18:07 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



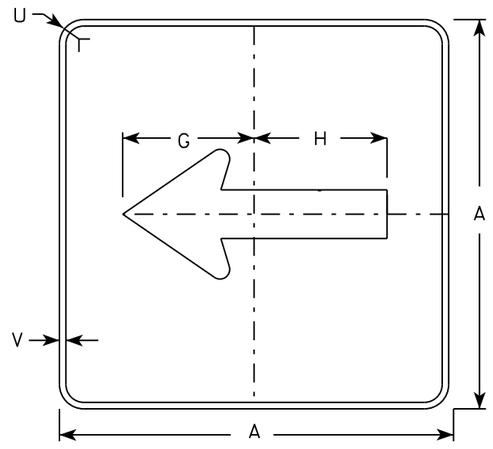
M6-1
MM6-1
MO6-1
MP6-1



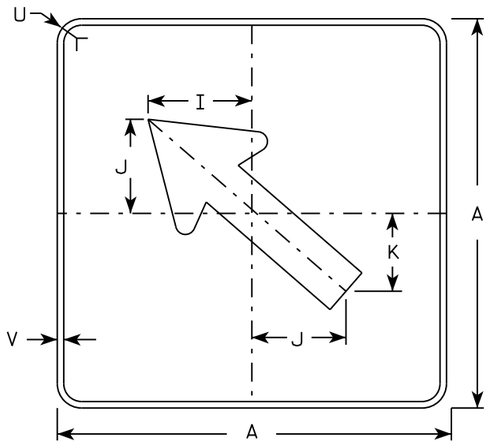
M6-2
MM6-2
MO6-2
MP6-2

NOTES

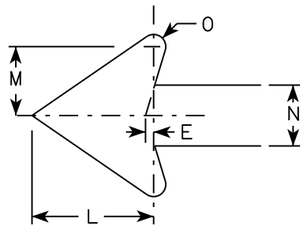
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - White
   Message - Black
   MB6-1 and MB6-2 Background - Blue
   Message - White
   MK6-1 and MK6-2 Background - Green
   Message - White
   MM6-1 and MM6-2 Background - White
   Message - Green
   MN6-1 and MN6-2 Background - Brown
   Message - White
   MO6-1 and MO6-2 Background - Orange - Type F Reflective
   Message - Black
   MP6-1 and MP6-2 Background - White
   Message - Blue
   MR6-1 and MR6-2 Background - Brown
   Message - Yellow



MB6-1
MK6-1
MN6-1
MR6-1



MB6-2
MK6-2
MN6-2
MR6-2



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2						1 1/2	1/2						3.06
3	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
4	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
5	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25

STANDARD SIGN
M6-1 & M6-2
SERIES

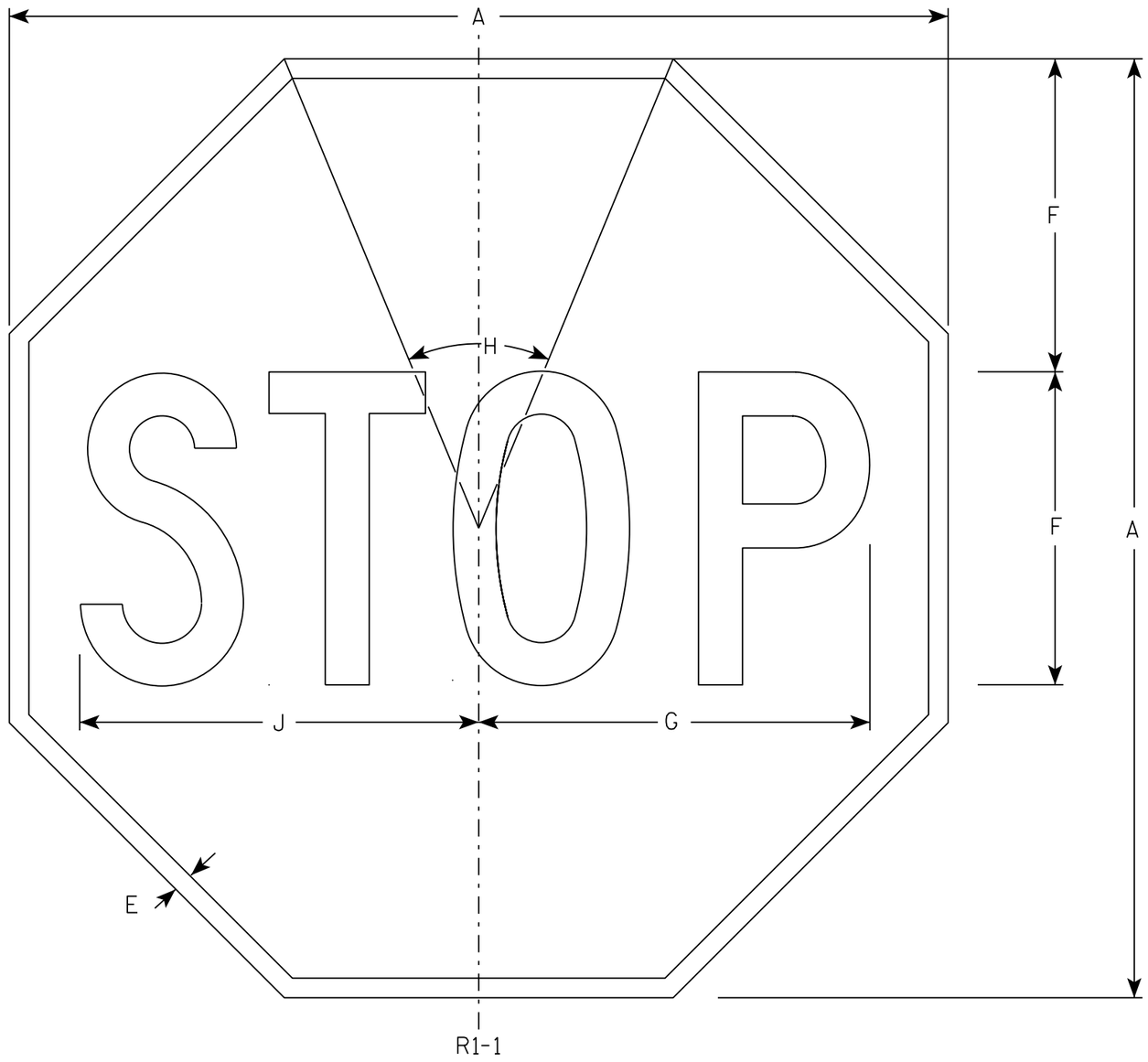
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE 170 M6-1.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M61.DGN PLOT DATE : 01-DEC-2015 17:57 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

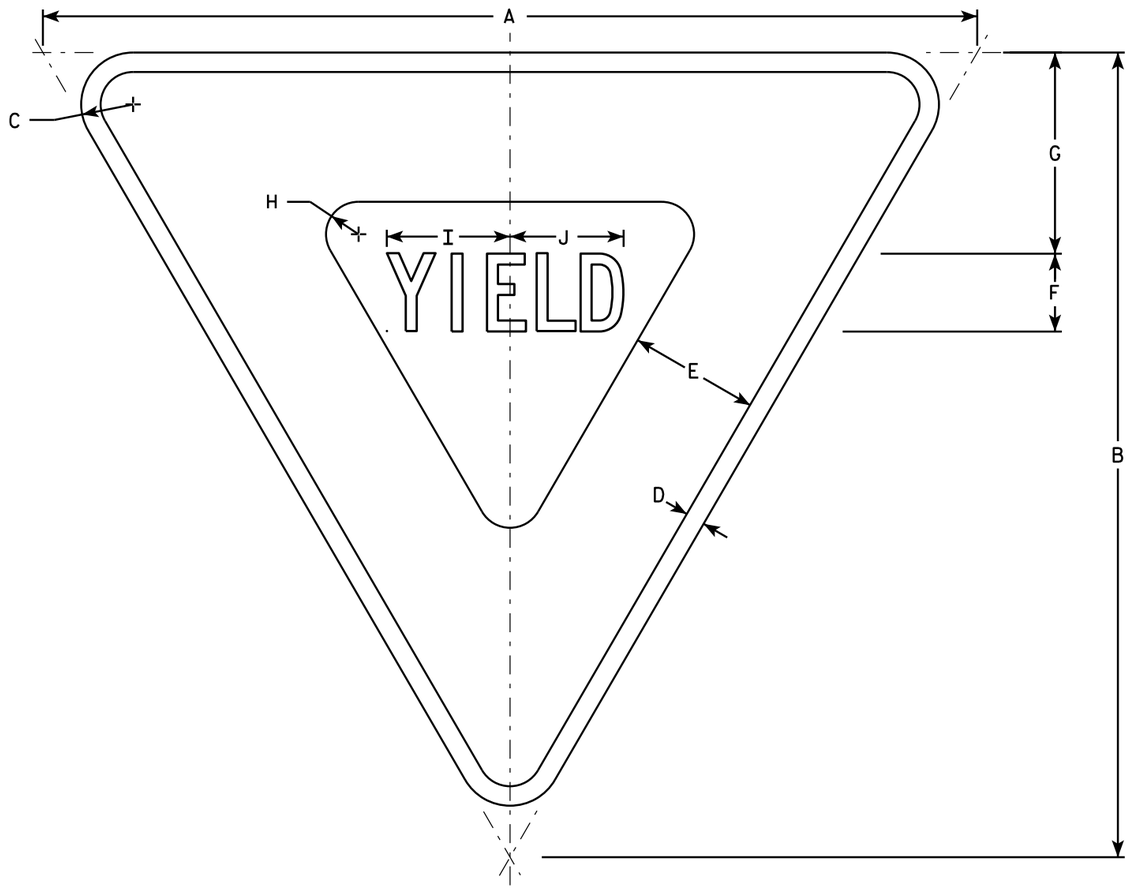
STANDARD SIGN
R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/15 PLATE NO. R1-1.13

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 171	E



R1-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. The border strip and word message are reflectorized red.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30	26	1 1/2	5/8	4	2 1/2	6 3/8	7/8	4	3 5/8																	2.71
2S	36	31	2	3/4	5	3	7 3/4	1 1/4	4 3/4	4 3/8																	3.88
2M	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
3	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
4	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
5	60	52	3	1 1/2	8	5	13	2 1/2	7 7/8	7 1/4																	10.83
6																											
7	18	15 1/2	1	3/8	2 1/2	1 1/2	3 7/8	5/8	2 3/8	2 1/4																	0.97

STANDARD SIGN
R1-2

WISCONSIN DEPT OF TRANSPORTATION

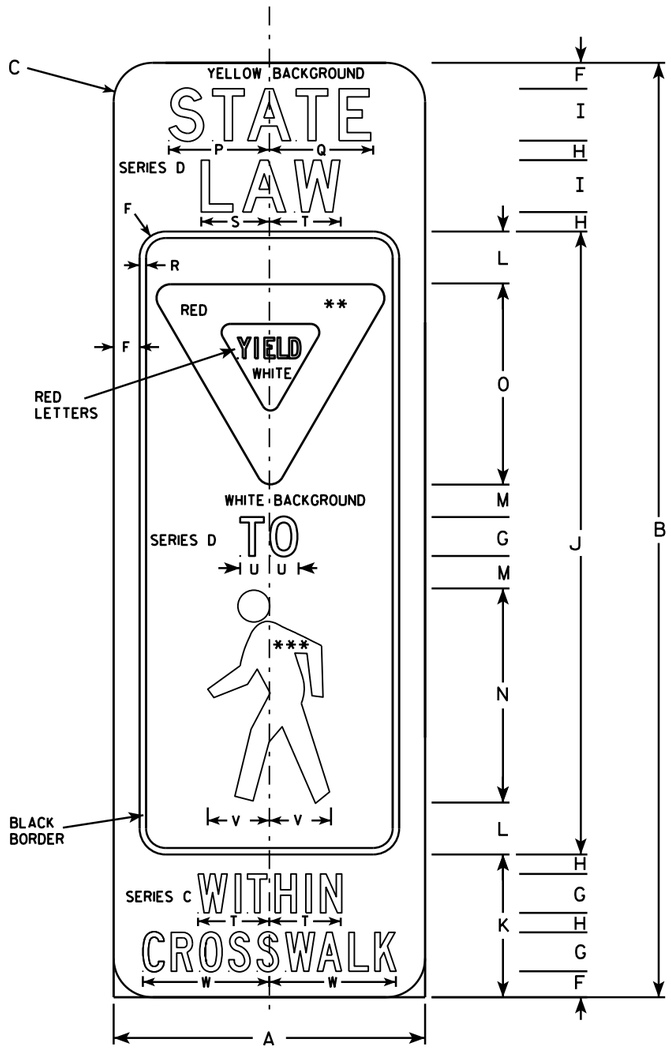
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/13/14 PLATE R1-2.12

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\R12.DGN PLOT DATE : 13-OCT-2014 15:12 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 5.837526:1.000000

WISDOT/CADDS SHEET 42



R1-6

** INSERT R1-2 AND SIZE TO FIT

*** INSERT W11-2 AND SIZE TO FIT

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - YELLOW
   Message - BLACK
   YIELD SYMBOL - RED ON WHITE
   PED SYMBOL - BLACK ON WHITE
3. Message Series - AS SHOWN AND IN TABLE
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	12	36	1 ½			1	1 ½C	¾	2 D	24	5 ½	2	1 ¼	8 ¼	7 ¾	3 ⅞	4	¼	2 ⅝	2 ¾	1 ⅛	2 ⅜	4 ⅞				3.0
2M	12	36	1 ½			1	1 ½C	¾	2 D	24	5 ½	2	1 ¼	8 ¼	7 ¾	3 ⅞	4	¼	2 ⅝	2 ¾	1 ⅛	2 ⅜	4 ⅞				3.0
3																											
4																											
5																											

STANDARD SIGN
R1-6

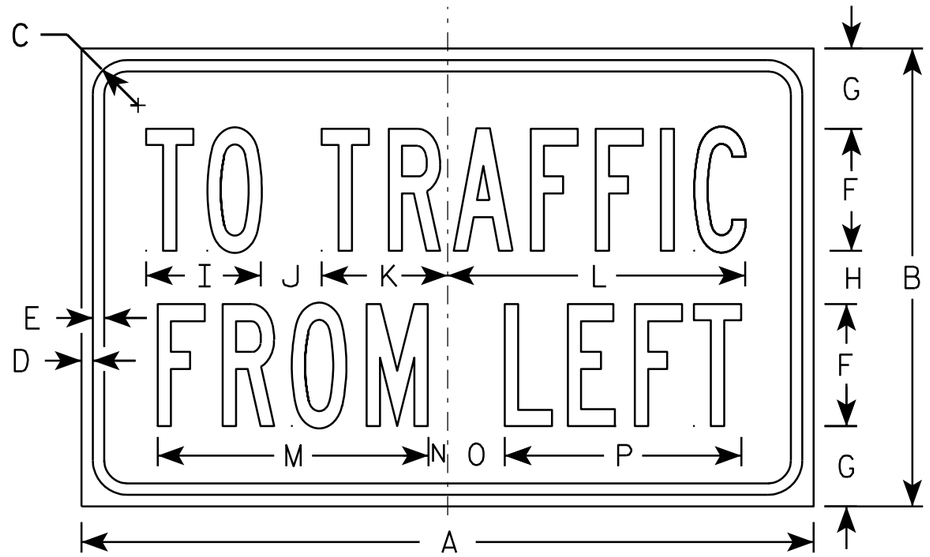
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/29/14 PLATE NO. R1-6.3

PROJECT NO:

SHEET NO: E



R1-54

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - B

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	15	1 1/8	3/8	3/8	4	2 5/8	1 3/4	3 3/4	2	4 1/8	9 3/4	8 7/8	5/8	1 7/8	7 3/4											2.5
2M	24	15	1 1/8	3/8	3/8	4	2 5/8	1 3/4	3 3/4	2	4 1/8	9 3/4	8 7/8	5/8	1 7/8	7 3/4											2.5
3																											
4																											
5																											

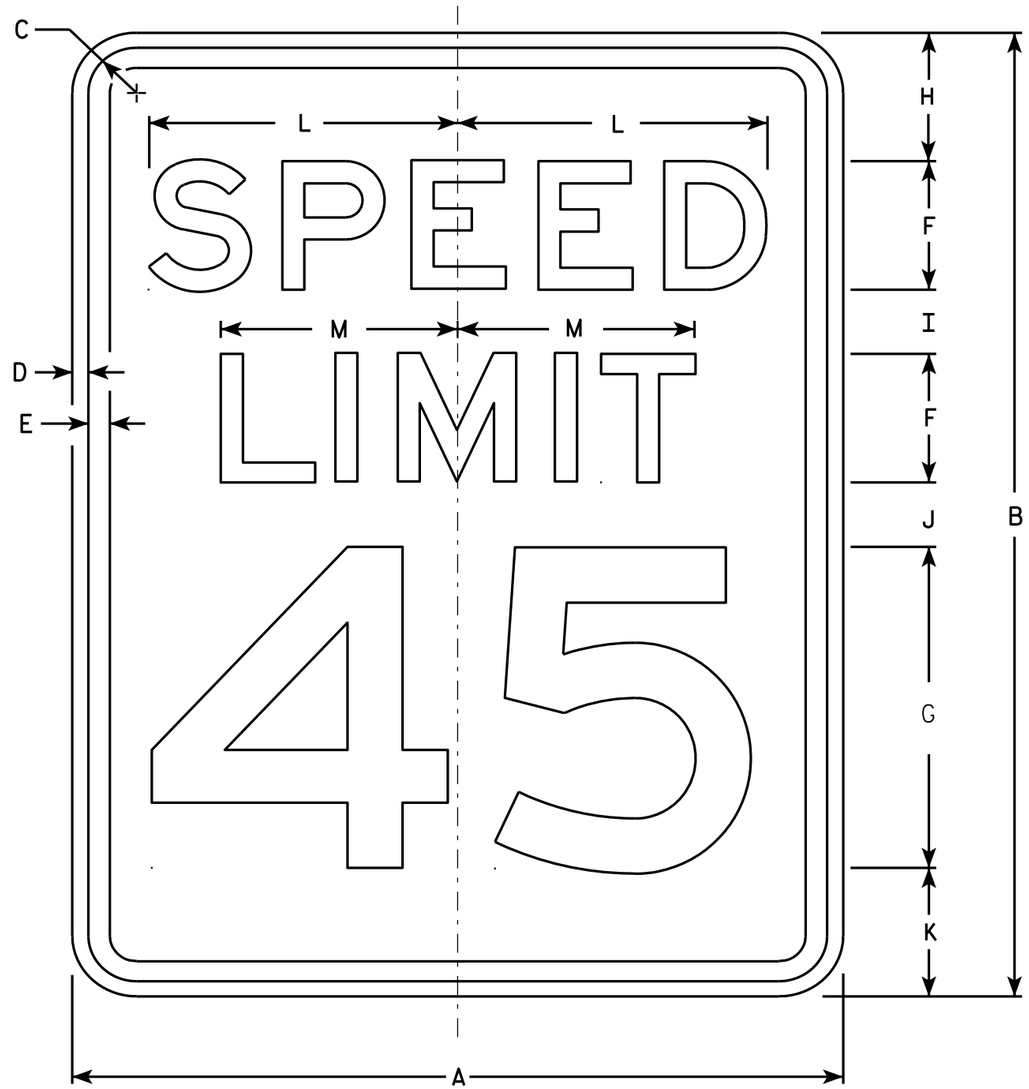
STANDARD SIGN
R1-54

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/03/10 PLATE NO. R1-54.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 174	E



R2-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/8	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 3/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	2 1/4	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

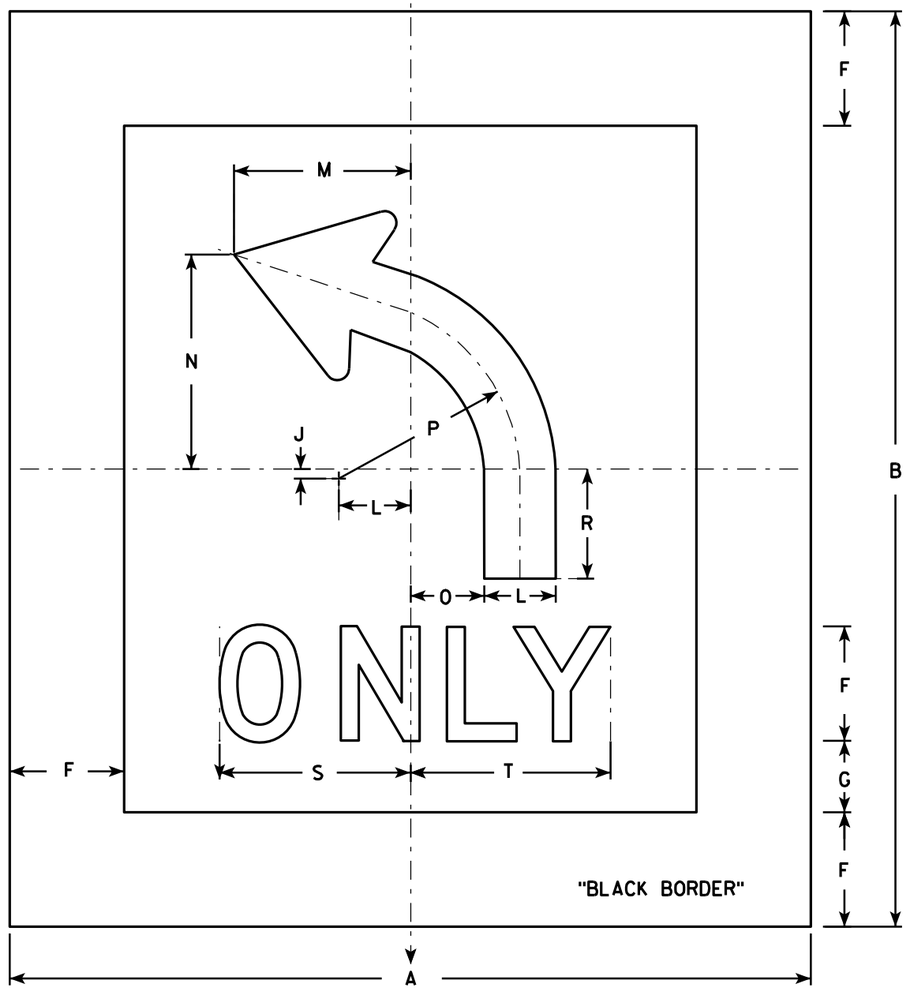
STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

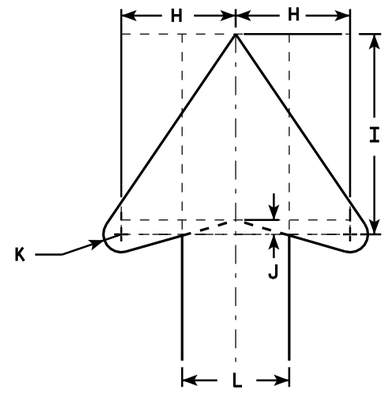
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 175 | E



R3-5L

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood. When base material is metal, the corners shall be rounded.
5. R3-5R is the same as R3-5L except curved portion of arrow points right.
6. The 6" border is non-reflective black.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	42	48				6	3 3/4	4	7	1/2	5/8	3 3/4	9 1/4	11 1/4	3 7/8	9 1/2		5 3/4	10	10 1/2							1.26
2M	42	48				6	3 3/4	4	7	1/2	5/8	3 3/4	9 1/4	11 1/4	3 7/8	9 1/2		5 3/4	10	10 1/2							1.26
3																											
4																											
5																											

STANDARD SIGN
R3-5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/24/11 PLATE NO. R3-5.6

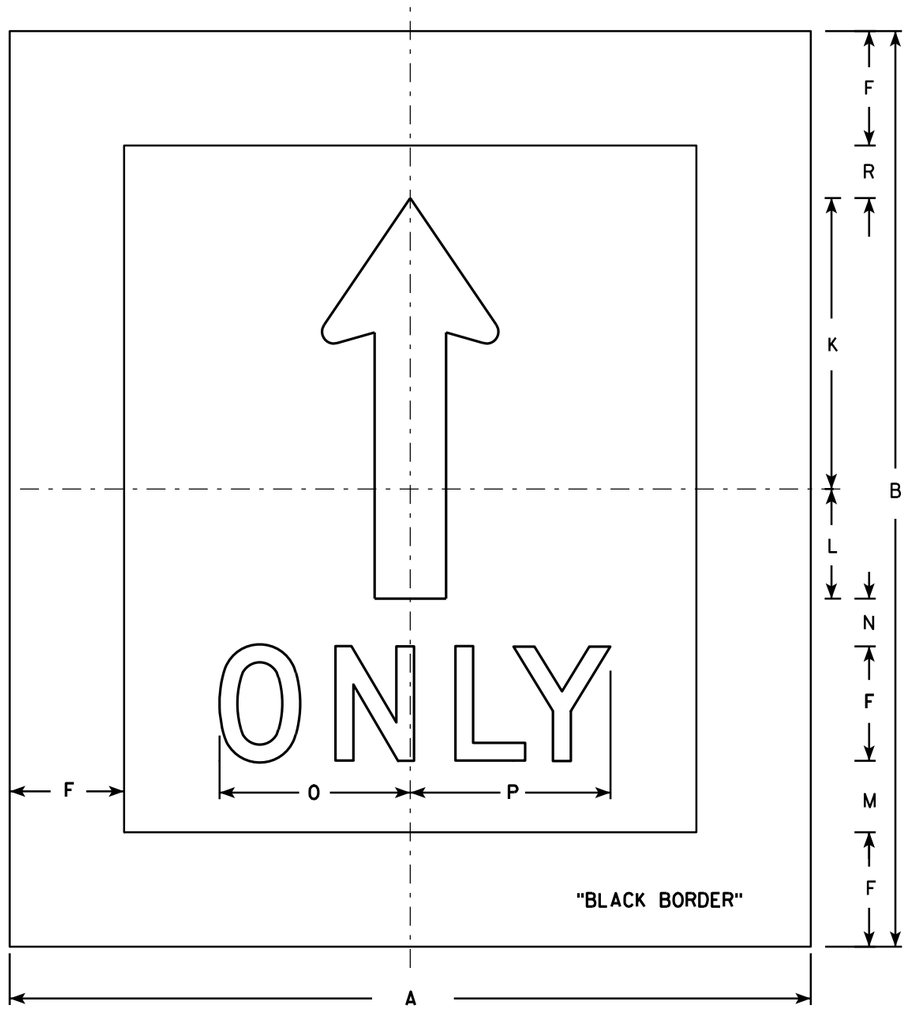
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 176 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R35.DGN PLOT DATE : 24-FEB-2011 14:53 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 7.945391:1.000000

WISDOT/CADDS SHEET 42

7

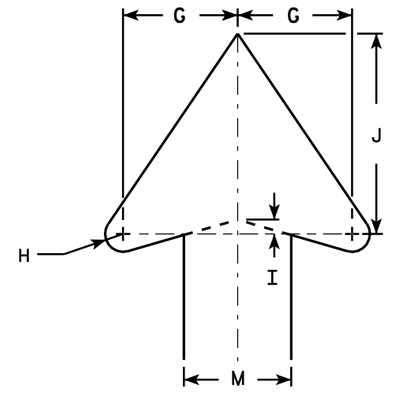
7



R3-5A

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood. When base material is metal, the corners shall be rounded.
5. The 6" border is non-reflective black.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	42	48				6	4	5/8	1/2	7	15 1/4	5 3/4	3 3/4	2 1/2	10	10 1/2		2 3/4									1.26
2M	42	48				6	4	5/8	1/2	7	15 1/4	5 3/4	3 3/4	2 1/2	10	10 1/2		2 3/4									1.26
3																											
4																											
5																											

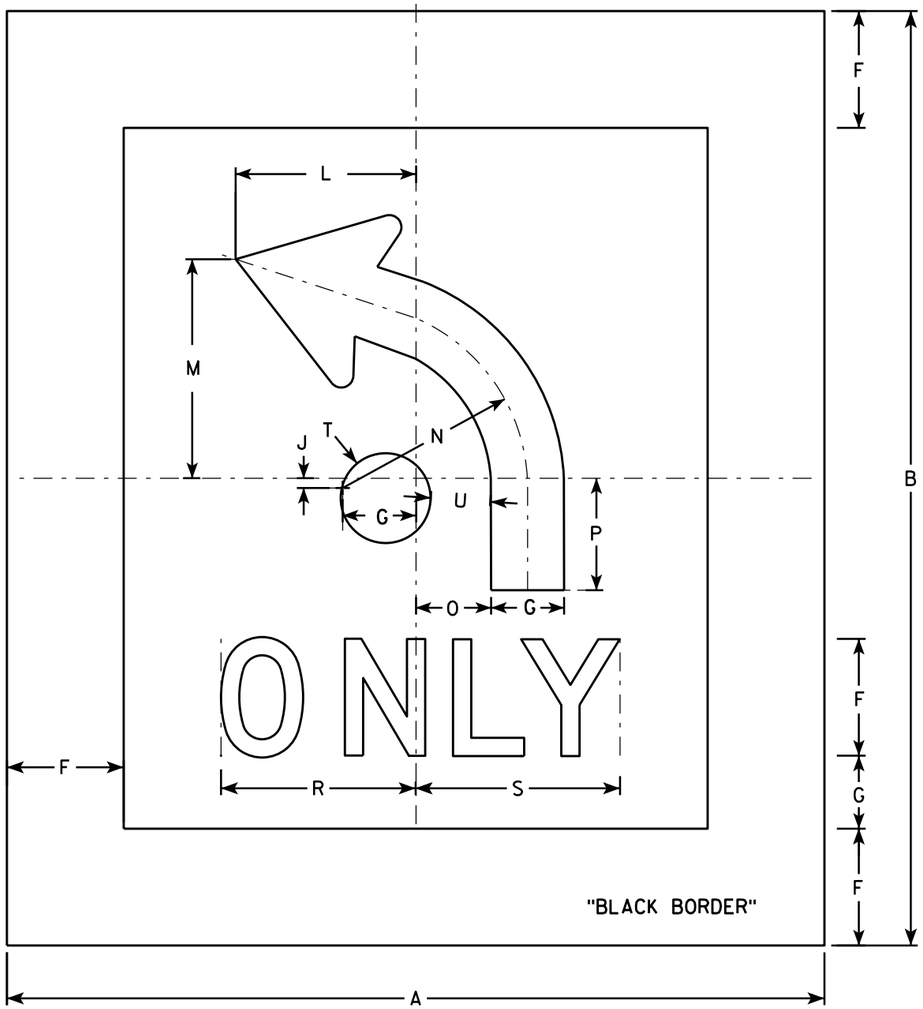
STANDARD SIGN
R3-5A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/24/11 PLATE NO. R3-5A.5

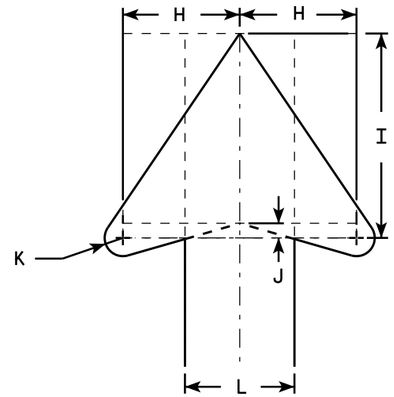
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 177	E



R3-5X

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood. When base material is metal, the corners shall be rounded.
5. The 6" border is non-reflective black.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	42	48				6	3 3/4	4	7	1/2	5/8	9 1/4	11 1/4	9 1/2	3 7/8	5 3/4		10	10 1/2	4 1/2	3						14.0
2M	42	48				6	3 3/4	4	7	1/2	5/8	9 1/4	11 1/4	9 1/2	3 7/8	5 3/4		10	10 1/2	4 1/2	3						14.0
3																											
4																											
5																											

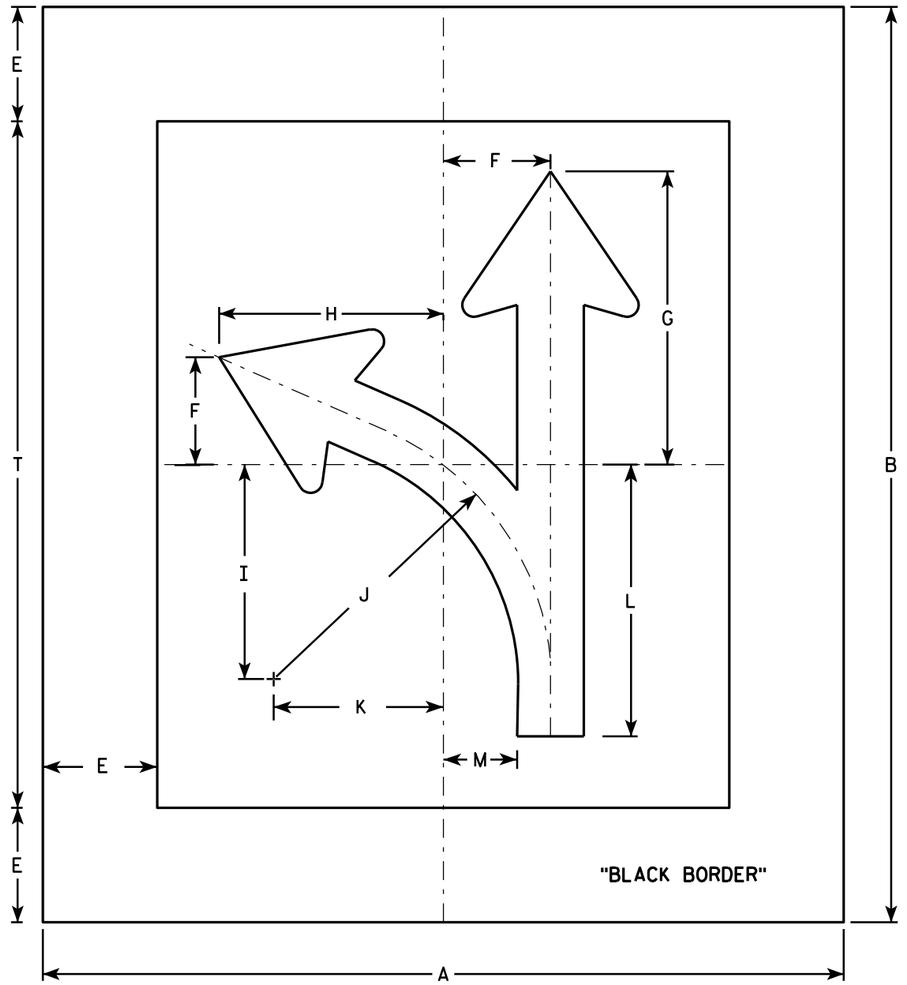
STANDARD SIGN
R3-5X

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 178 R3-5X.3

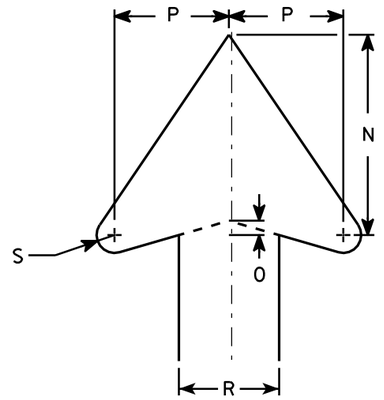
PROJECT NO: | HWY: | COUNTY: | SHEET NO: E



R3-6L

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Corners may be square or rounded when base material is plywood. When base material is metal, the corners shall be rounded.
4. R3-6R is the same as R3-6L except curved portion of arrow points right.
5. The 6" border is non-reflective black.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	42	48			6	5 5/8	15 3/8	11 3/4	11 1/4	14 1/2	8 7/8	14 1/4	3 7/8	7	1/2	4		3 1/2	5/8	36							14.0
2M	42	48			6	5 5/8	15 3/8	11 3/4	11 1/4	14 1/2	8 7/8	14 1/4	3 7/8	7	1/2	4		3 1/2	5/8	36							14.0
3																											
4																											
5																											

STANDARD SIGN
R3-6

WISCONSIN DEPT OF TRANSPORTATION

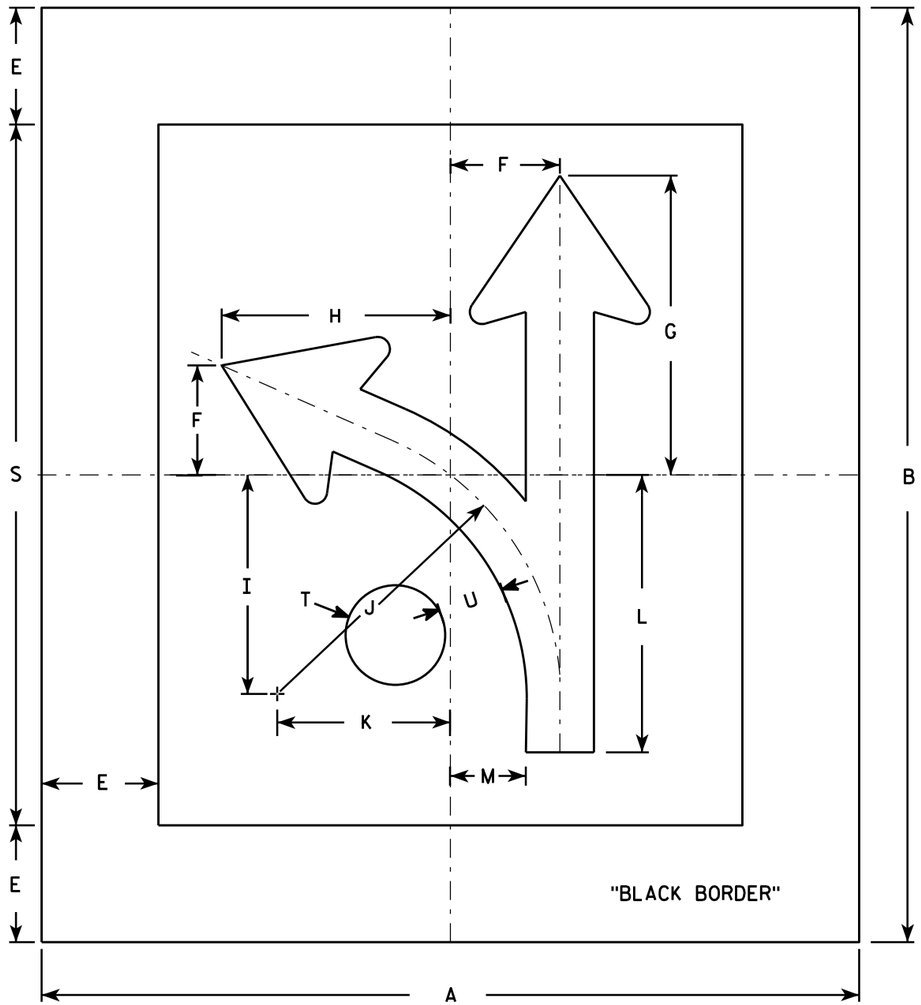
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/17/2011 PLATE NO. R3-6.5

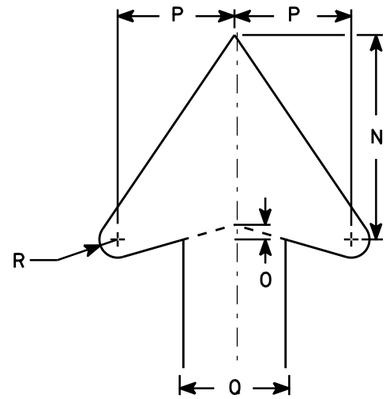
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 179 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Corners may be square or rounded when base material is plywood. When base material is metal, the corners shall be rounded.
4. The 6" border is non-reflective black.



R3-6X



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	42	48			6	5 5/8	15 3/8	11 3/4	11 1/4	14 1/2	8 7/8	14 1/4	3 7/8	7	1/2	4	3 1/2	5/8	36	5	3 1/2						14.0
2M	42	48			6	5 5/8	15 3/8	11 3/4	11 1/4	14 1/2	8 7/8	14 1/4	3 7/8	7	1/2	4	3 1/2	5/8	36	5	3 1/2						14.0
3																											
4																											
5																											

STANDARD SIGN
R3-6X

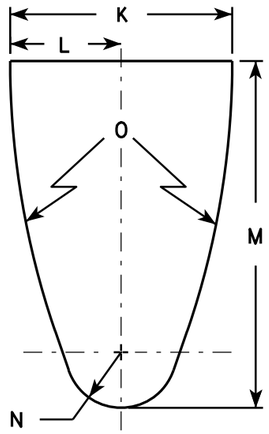
WISCONSIN DEPT OF TRANSPORTATION

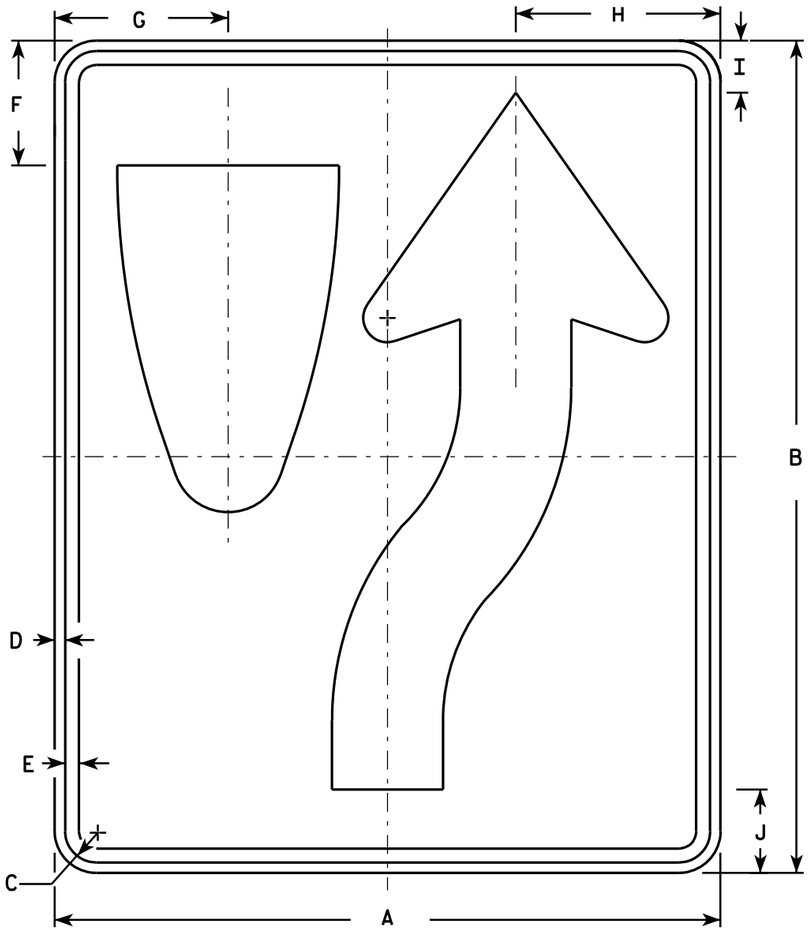
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE R3-6X.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\R36X.DGN PLOT DATE : 05-FEB-2015 14:49 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 7.783368:1.000000 WISDOT/CADDS SHEET 42

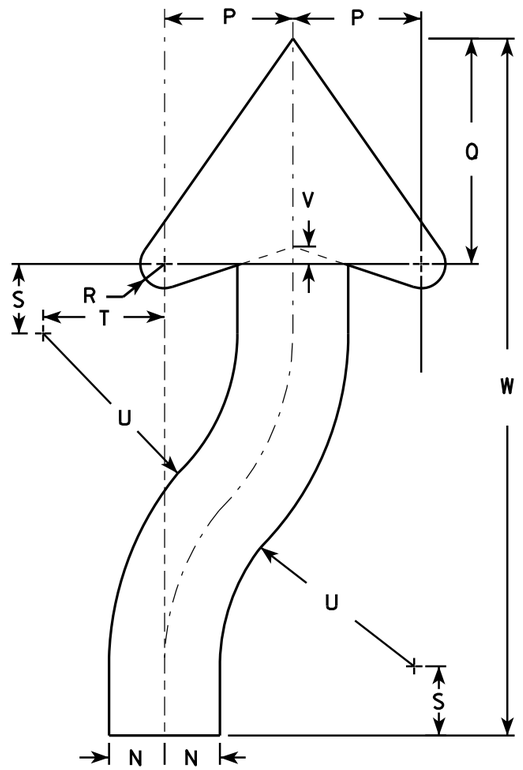




R4-7

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. material is plywood but borders shall be rounded
2. Color:
   Background - White
   Message - Black
3. Corners may be square or rounded when base as shown. When base material is metal, the corners and borders shall be rounded.
4. R4-8 is the same as R4-7 except Legend is reversed.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3 3/8	4 3/4	5 1/2	1 3/8	2 1/4	6	3	9 3/8	1 1/2	22 1/2	3 1/2	6 1/8	5/8	1 7/8	3 1/4	6 3/4	1/2	20 3/8				3.0
2S	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
2M	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
3	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
4	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
5	48	60	2 1/4	3/4	1	9	12 1/2	14 3/4	3 3/4	6	16	8	25	4	60	9 1/4	16 1/4	1 5/8	5	8 3/4	18	1 1/4	50 1/4				20.0

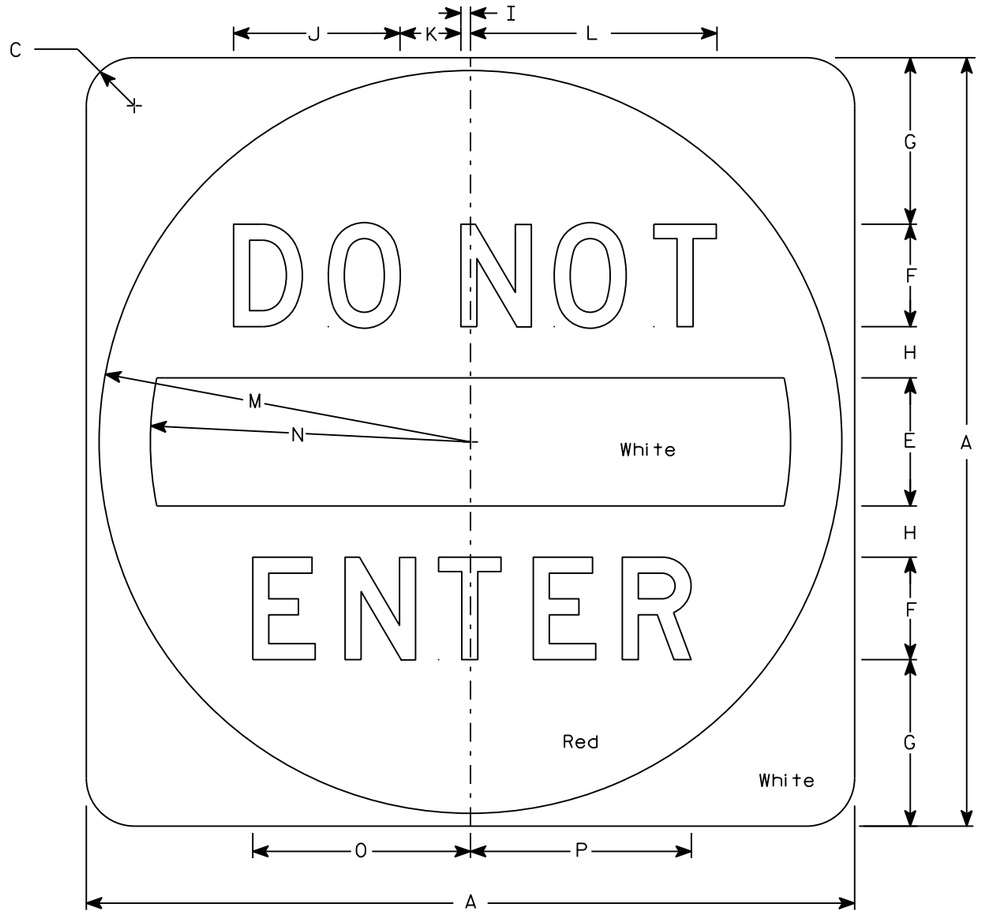
STANDARD SIGN
R4-7 & R4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-7.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 181	E



R5-1

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - See detail
   Message - White
3. Message Series - D

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30		1 7/8		5	4	6 1/2	2	3/8	6 1/2	2 3/8	9 5/8	14 1/2	12 1/2	8 1/2	8 5/8											6.25
2M	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
3	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
4	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
5	48		3		8	6	11	3	5/8	9 3/4	3 5/8	14 1/2	23 1/2	20	12 3/4	12 7/8											16.0

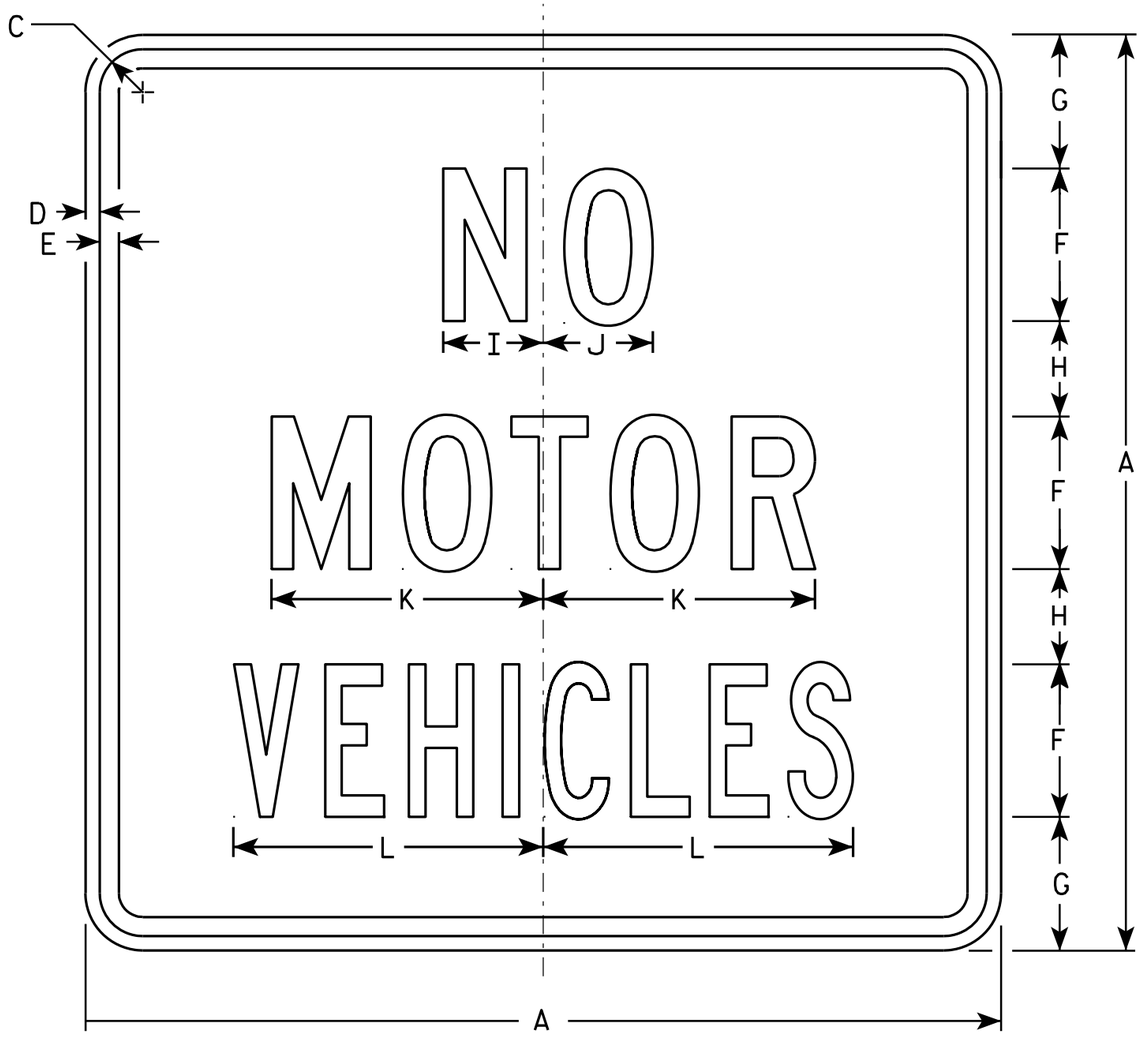
STANDARD SIGN
R5-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/15/18 PLATE NO. R5-1.16

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 182 | E



R5-3

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - See Note 5.
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1 & 2 are Series C.
   Line 3 is Series B.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24		1 1/8	3/8	1/2	4	3 1/2	2 1/2	2 5/8	2 7/8	7 1/8	8 1/8															4.0
2M	24		1 1/8	3/8	1/2	4	3 1/2	2 1/2	2 5/8	2 7/8	7 1/8	8 1/8															4.0
3																											
4																											
5																											

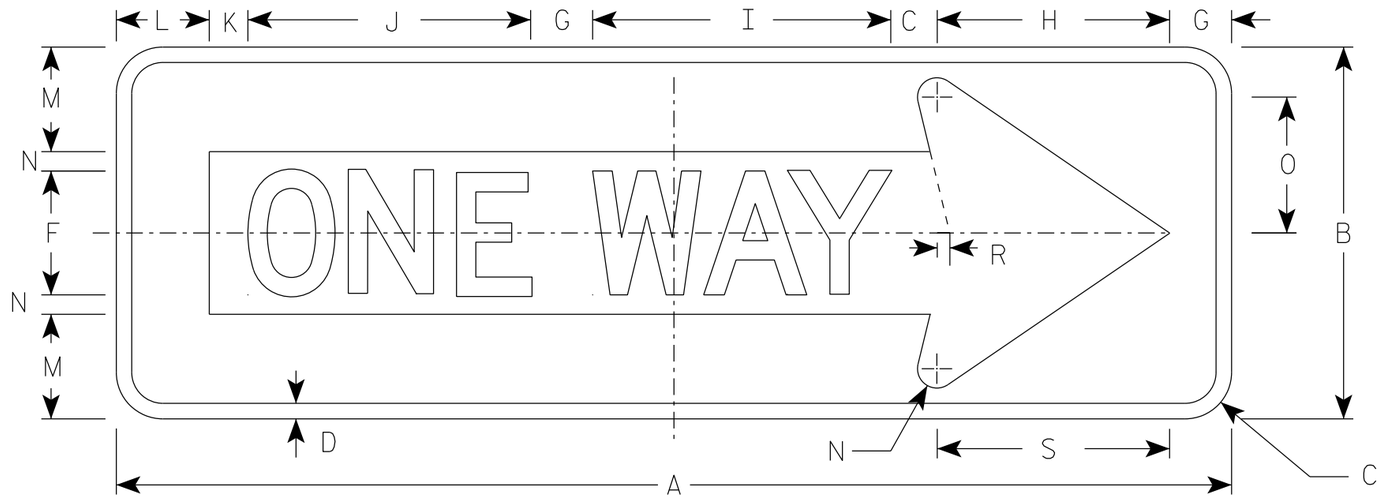
STANDARD SIGN
R5-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/29/2011 PLATE NO. R5-3.2

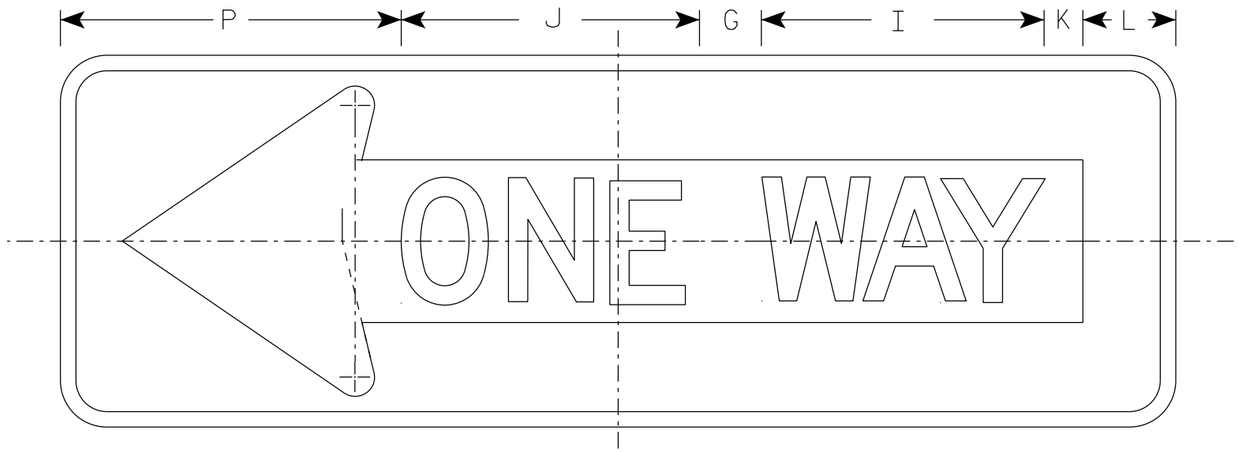
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 183 | E



R6-1R

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - BLACK
   Message - BLACK LEGEND & WHITE ARROW & BORDER
3. Message Series - D



R6-1L

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36	12	1 1/2	1/2		4	2	7 1/2	9 5/8	9 1/8	1 1/4	3	3 3/8	5/8	4 3/8	11		3/8	7 1/2								3.0
2M	54	18	2 1/4	3/4		6	3	11 1/4	13 5/8	14 1/2	1 7/8	4 1/2	5	1	6 1/2	16 1/2		5/8	11 1/4								6.75
3	54	18	2 1/4	3/4		6	3	11 1/4	13 5/8	14 1/2	1 7/8	4 1/2	5	1	6 1/2	16 1/2		5/8	11 1/4								6.75
4	54	18	2 1/4	3/4		6	3	11 1/4	13 5/8	14 1/2	1 7/8	4 1/2	5	1	6 1/2	16 1/2		5/8	11 1/4								6.75
5																											

STANDARD SIGN
R6-1 L & R

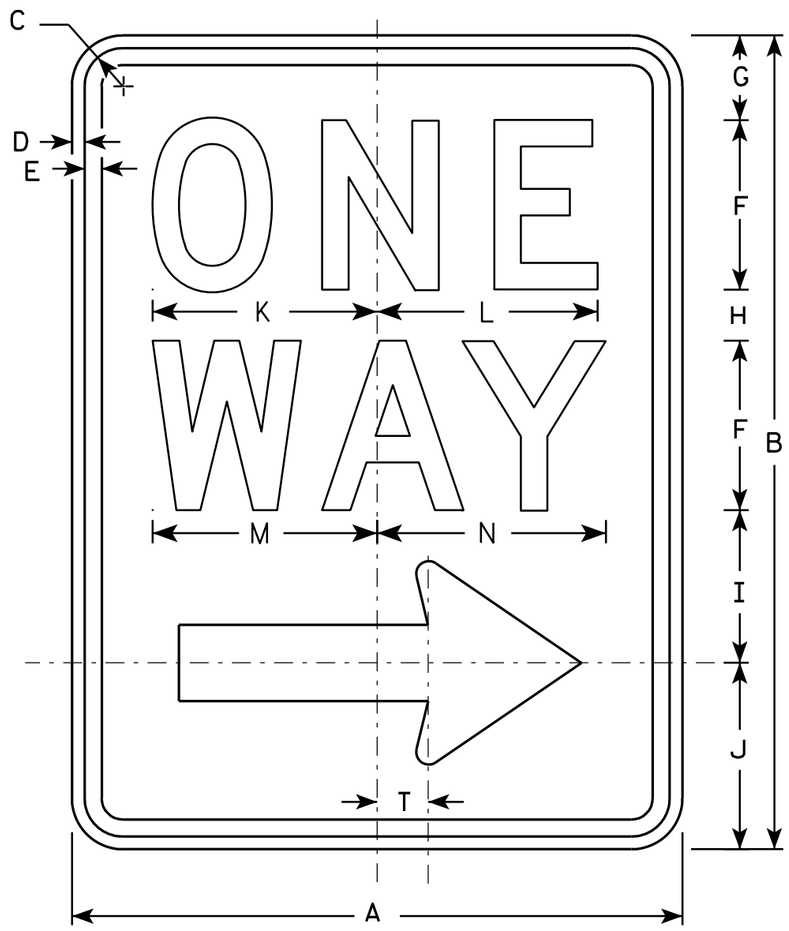
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 07/11/18 PLATE NO. R6-1.3

PROJECT NO:

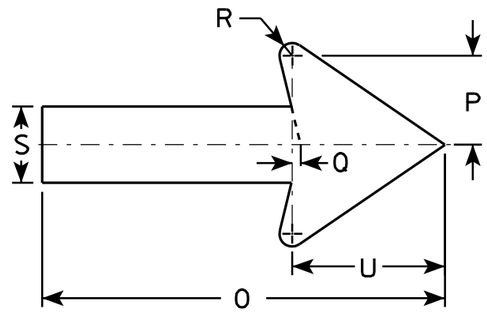
SHEET NO: 184 E



R6-2R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. R6-2L same as R6-2R except arrow points to the left.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z
1	18	24	1 1/8	3/8	1/2	5	2 1/2	1 1/2	4 1/2	5 1/2	6 5/8	6 1/2	6 5/8	6 3/4	11 7/8	2 5/8	1/4	3/8	2 1/4	1 1/2	4 1/2					
2S	24	30	1 1/8	3/8	1/2	6	3	2 1/2	5 1/2	7	8 1/8	8 1/8	8 1/2	8 5/8	16	3 1/2	3/8	1/2	3	2	6					
2M	30	36	1 3/8	1/2	5/8	8	2 1/2	2 5/8	6 7/8	8	10 1/2	10 1/2	11 1/4	11 1/4	20	4 3/8	1/2	5/8	3 3/4	2 1/2	7 1/2					
3	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
4	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
5																										

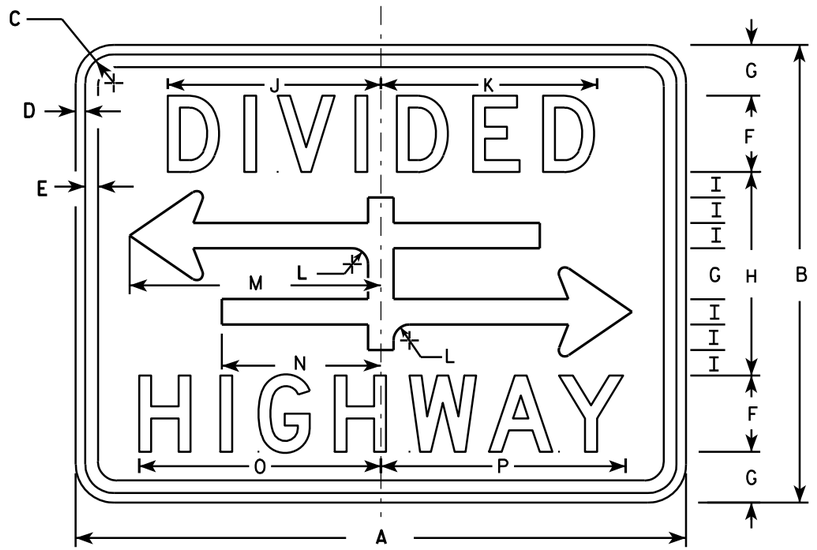
STANDARD SIGN
R6-2 R&L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/2/10 PLATE NO. R6-2.8

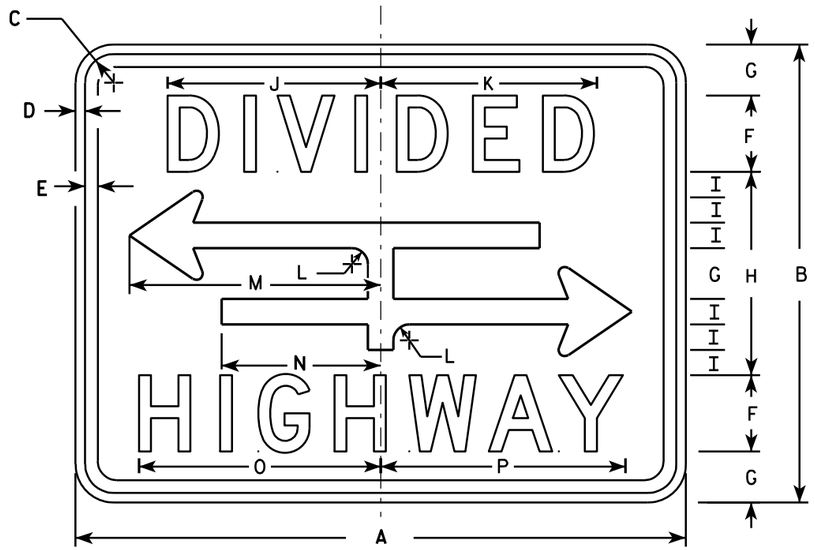
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 185	E



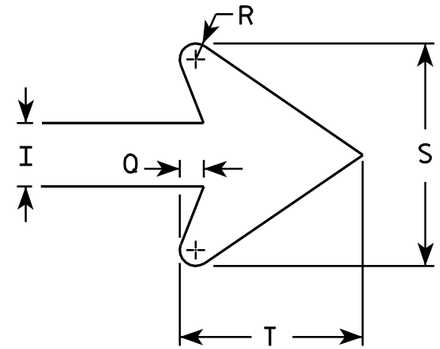
R6-3

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



R6-3A



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24	18	1 1/8	3/8	3/8	3	2	8	1	8 3/8	8 1/2	5/8	9 7/8	6 1/4	9 1/2	9 5/8	3/8	1/4	3 1/2	2 3/4							3.0
2S	30	24	1 1/8	3/8	1/2	4	2 5/8	10 3/4	1 3/8	10 1/2	10 5/8	7/8	12 1/2	7 7/8	12 1/4	12 3/8	1/2	3/8	4 5/8	3 5/8							5.0
2M	30	24	1 1/8	3/8	1/2	4	2 5/8	10 3/4	1 3/8	10 1/2	10 5/8	7/8	12 1/2	7 7/8	12 1/4	12 3/8	1/2	3/8	4 5/8	3 5/8							5.0
3																											
4																											
5																											

STANDARD SIGN
R6-3 & R6-3A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

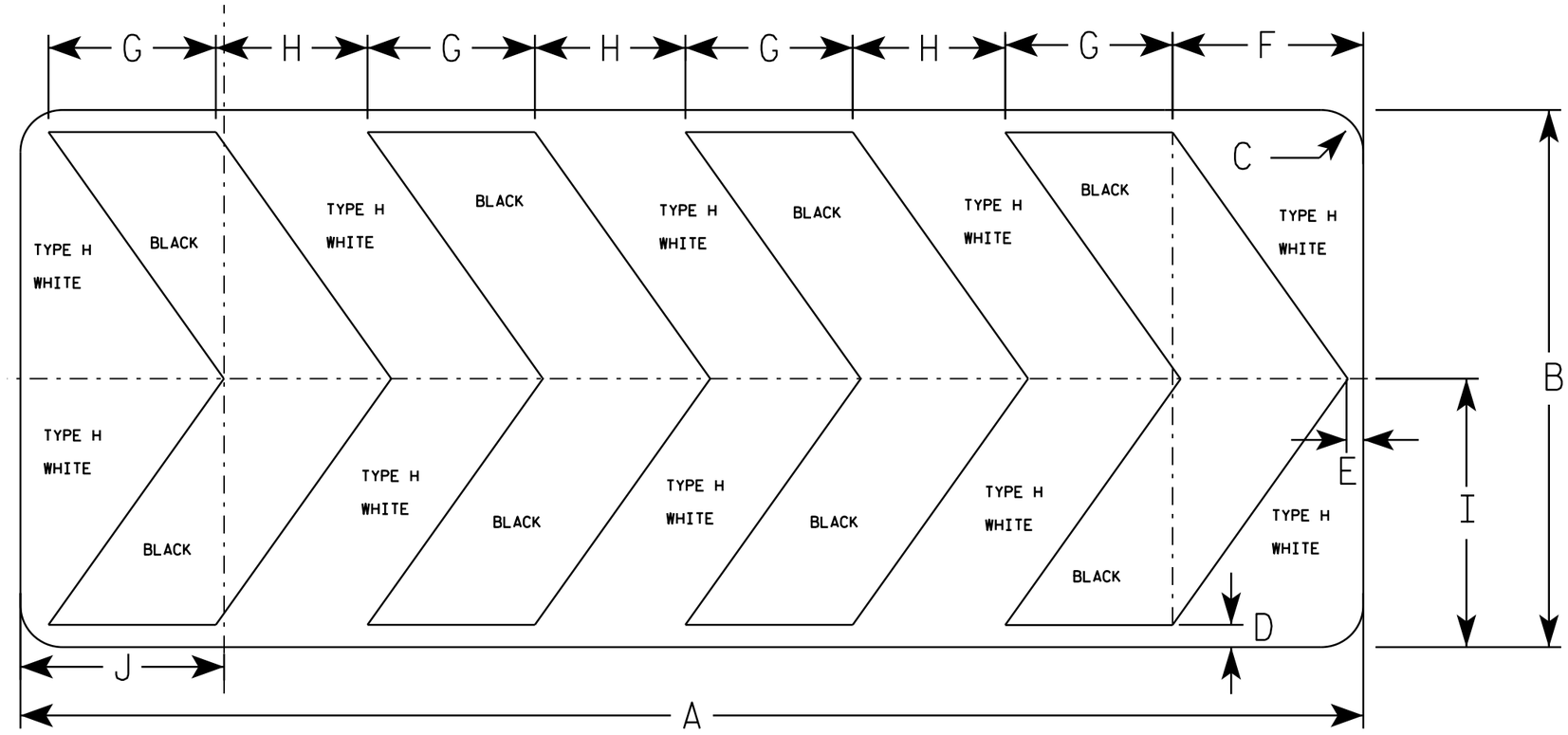
DATE 3/31/2011 PLATE NO. R6-3.5

PROJECT NO:

SHEET NO: 186 E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - WHITE
   Message - BLACK
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



R6-4B

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	60	24	1 7/8	1	3/4	8 1/2	7 1/2	6 3/4	12	9 1/8																	10.0
2M	60	24	1 7/8	1	3/4	8 1/2	7 1/2	6 3/4	12	9 1/8																	10.0
3																											
4																											
5																											

STANDARD SIGN
R6-4B

WISCONSIN DEPT OF TRANSPORTATION

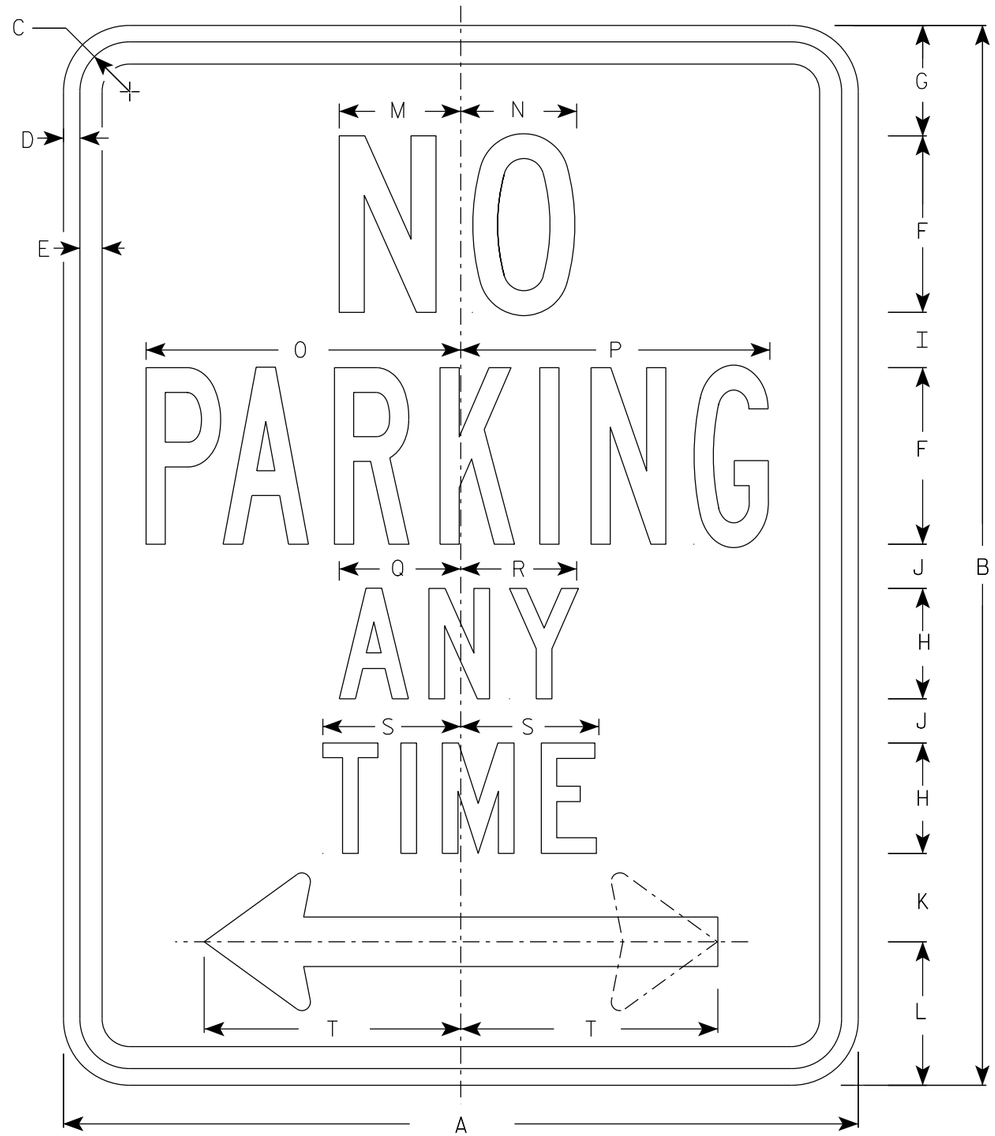
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/21/14 PLATE NO. R6-4.3

PROJECT NO: SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\R64B.DGN PLOT DATE : 21-AUG-2014 15:01 PLOT BY : mscsja

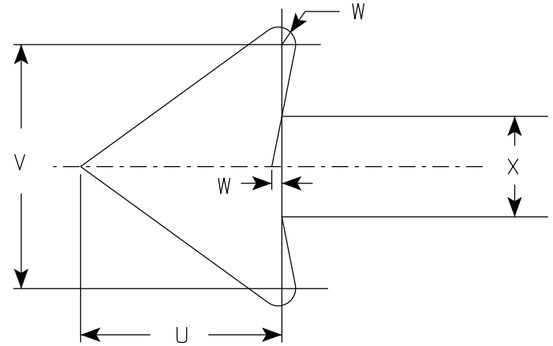
WISDOT/CADDS SHEET 42



R7-1

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Red
3. Message Series - See Note 5
4. Lines 1, 3 and 4 are series C, line 2 is series B.
5. R7-1D (double arrow)
   R7-1L (left arrow)
   R7-1R (right arrow)



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12	18	1 1/8	3/8	3/8	3	1 7/8	2	7/8	5/8	1 1/2	2 1/2	2	2	4 7/8	4 7/8	2 1/4	2 1/8	2 1/2	3 7/8	1 1/2	1 3/4	1/8	3/4			1.5
2S	18	24	1 1/8	3/8	1/2	4	2 1/2	2 1/2	1 1/4	1	2	3 1/4	2 3/4	2 5/8	7 1/8	7	2 3/4	2 5/8	3 1/8	5 7/8	2 1/4	2 5/8	1/4	1 1/8			3.0
2M	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
3	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
4																											
5																											

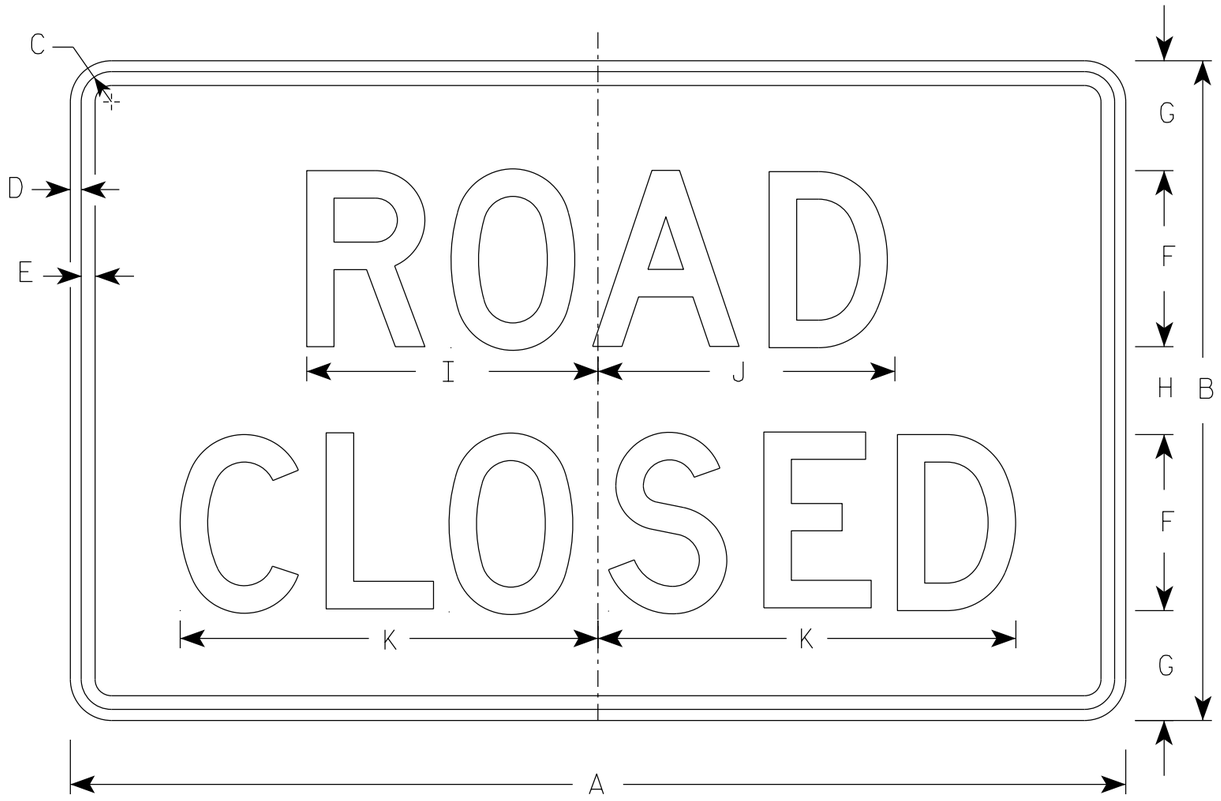
STANDARD SIGN
R7-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2021 PLATE NO. R7-1.10

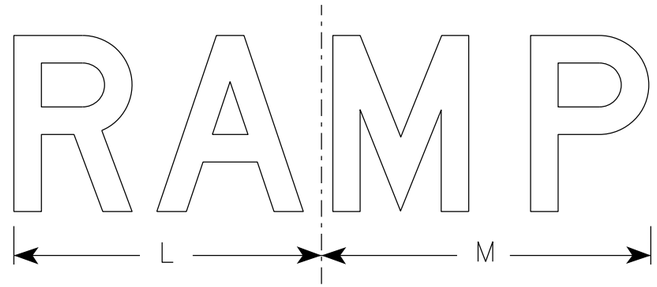
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 188 E



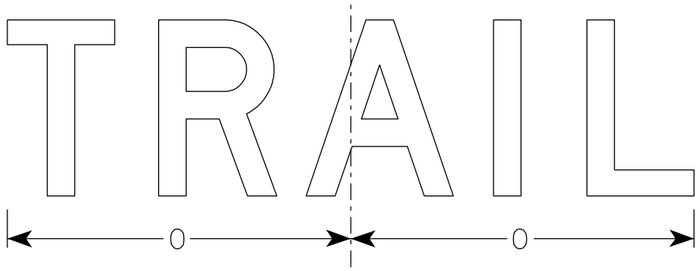
R11-2

NOTES

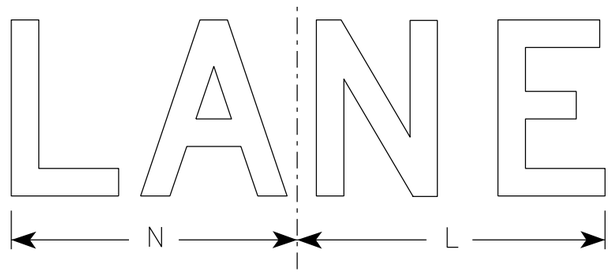
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Modify the message as required.



R11-2R



R11-2T



R11-2L

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
2M	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
3	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
4	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
5	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0

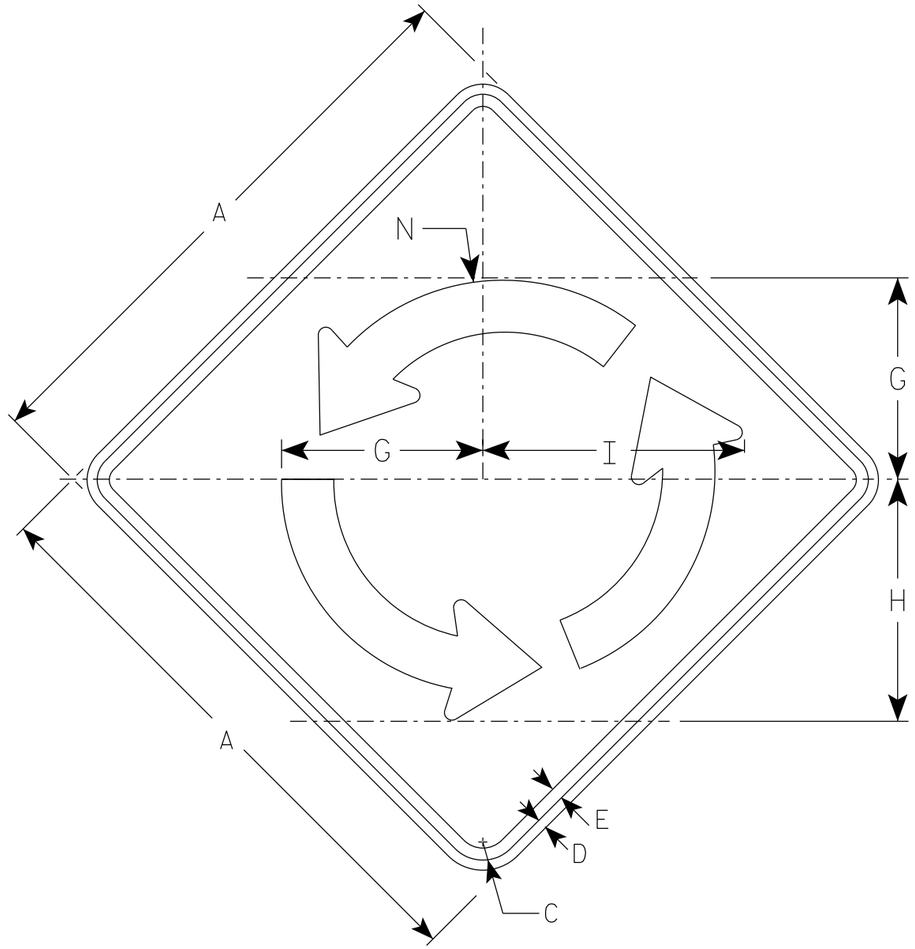
STANDARD SIGN
R11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/29/2021 PLATE NO. R11-2.11

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 189	E

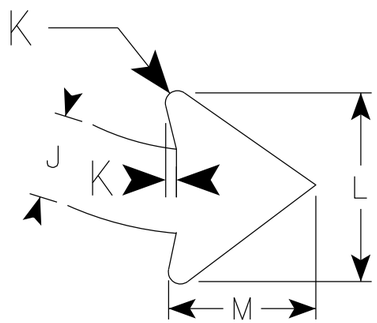


W2-6

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black

Arrow Detail



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Area sq. ft.
1																									
2S	30		1 3/8	1/2	5/8		10 3/8	12 1/2	13 1/2	2 3/4	3/8	6	4 3/4	11 1/8											6.25
2M	30		1 3/8	1/2	5/8		10 3/8	12 1/2	13 1/2	2 3/4	3/8	6	4 3/4	11 1/8											6.25
3	36		1 5/8	5/8	3/4		12 1/2	15	16 1/4	3 1/4	1/2	7 3/8	5 3/4	13 3/8											9.00
4	48		2 1/4	3/4	1		16 5/8	20	16 1/4	4 3/8	5/8	9 3/4	7 5/8	17 7/8											16.0
5																									

STANDARD SIGN
W2-6

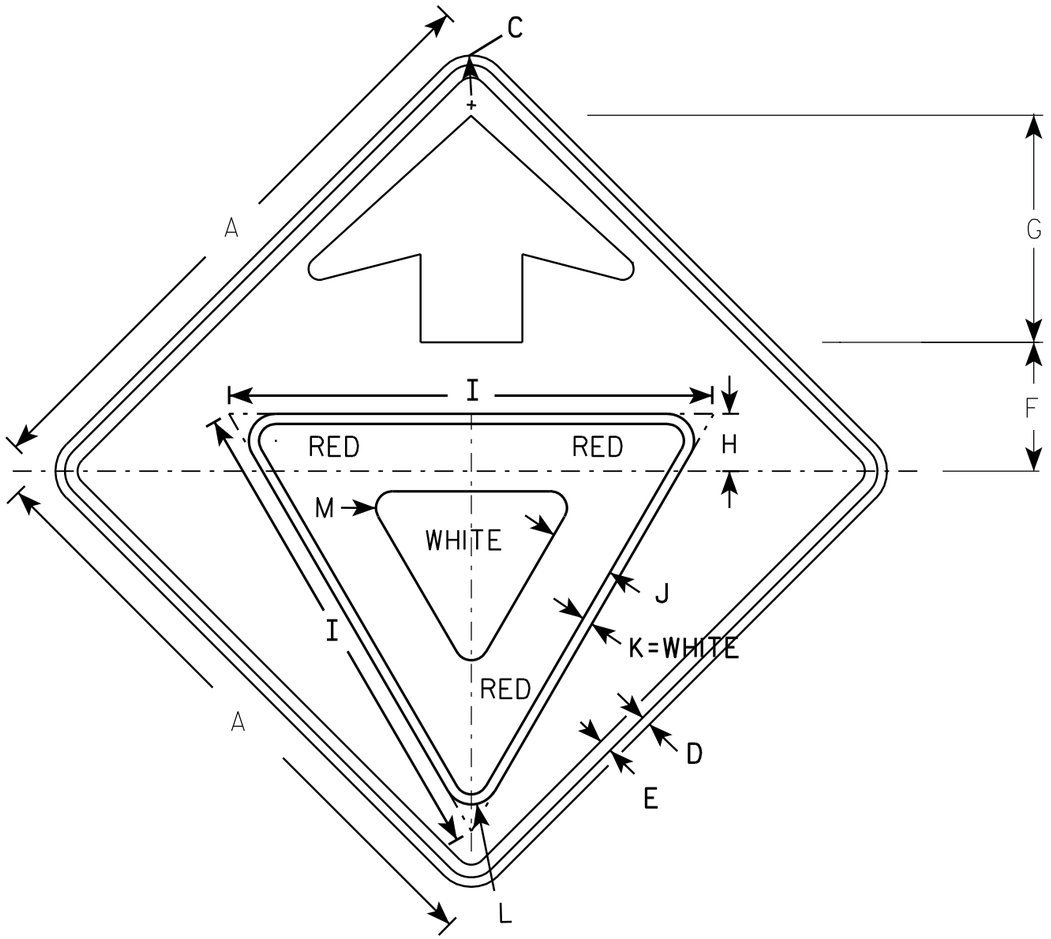
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/24/21 PLATE NO. W2-6.7

PROJECT NO:

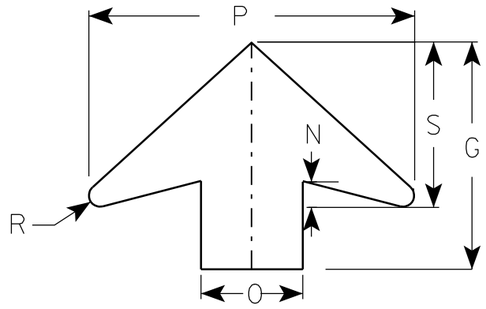
SHEET NO: 190 E



W3-2

NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - YELLOW
   Arrow & Border - BLACK
   Yield Symbol - WHITE BORDER ON RED BACKGROUND



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	6 1/4	11 1/4	3	25	3 3/8	1/2	1 3/8	7/8	1 1/4	5	16		1/2	8								6.25
2S	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 3/8	28	3 3/4	5/8	1 1/2	1	1 5/8	6	19 1/4		5/8	9 3/4								9.0
2M	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 3/8	28	3 3/4	5/8	1 1/2	1	1 5/8	6	19 1/4		5/8	9 3/4								9.0
3	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 3/8	28	3 3/4	5/8	1 1/2	1	1 5/8	6	19 1/4		5/8	9 3/4								9.0
4	48		2 1/4	3/4	1	10	17 7/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		7/8	13								16.0
5	48		2 1/4	3/4	1	10	17 7/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		7/8	13								16.0

STANDARD SIGN
W3-2

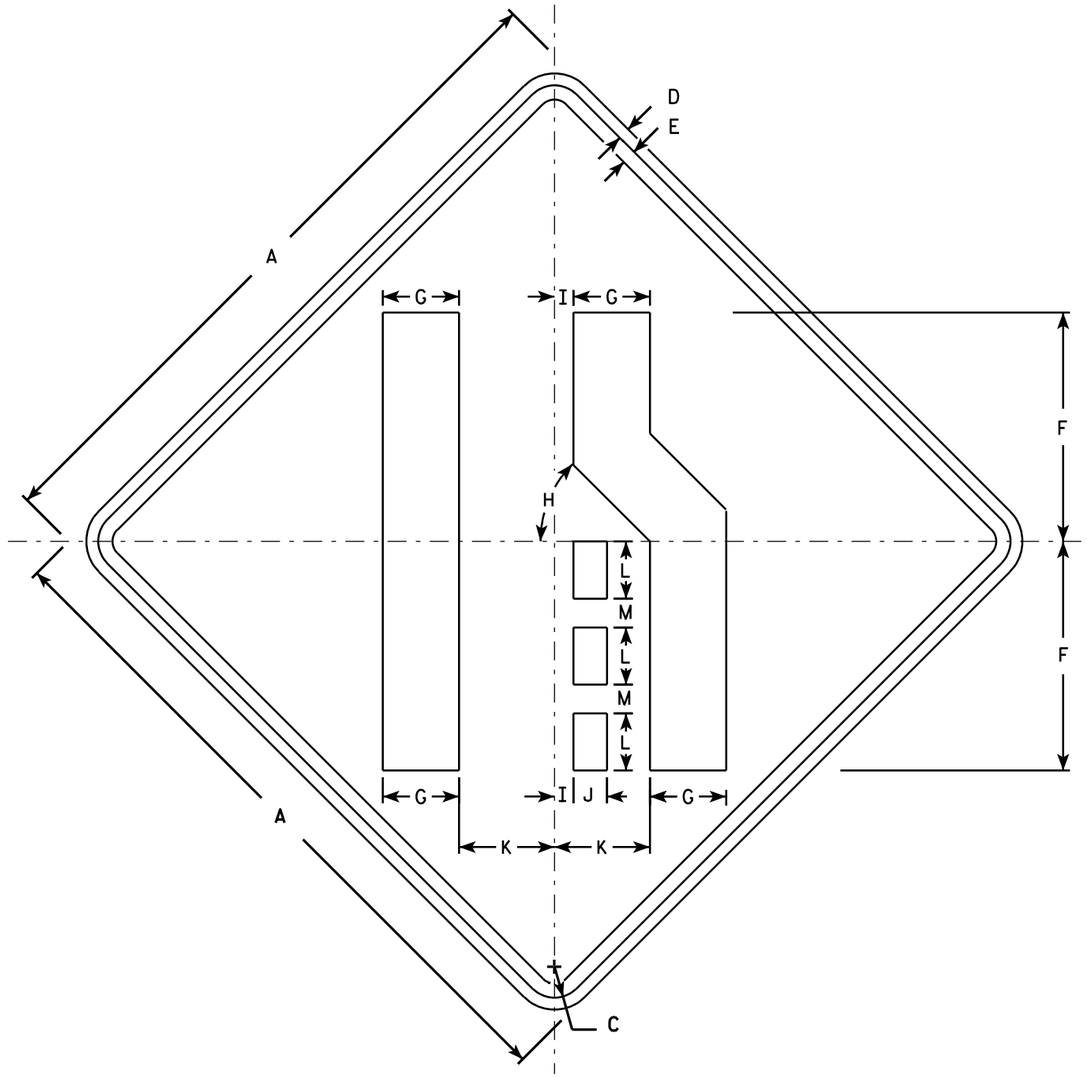
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-2..9

PROJECT NO:

SHEET NO: 191 E



W4-2R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W4-2L is the same as W4-2R except the symbol is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	10	3 3/8	45°	7/8	1 1/2	4 1/4	2 1/2	1 1/4														6.25
2S	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
2M	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
3	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
4	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
5	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0

STANDARD SIGN
W4-2

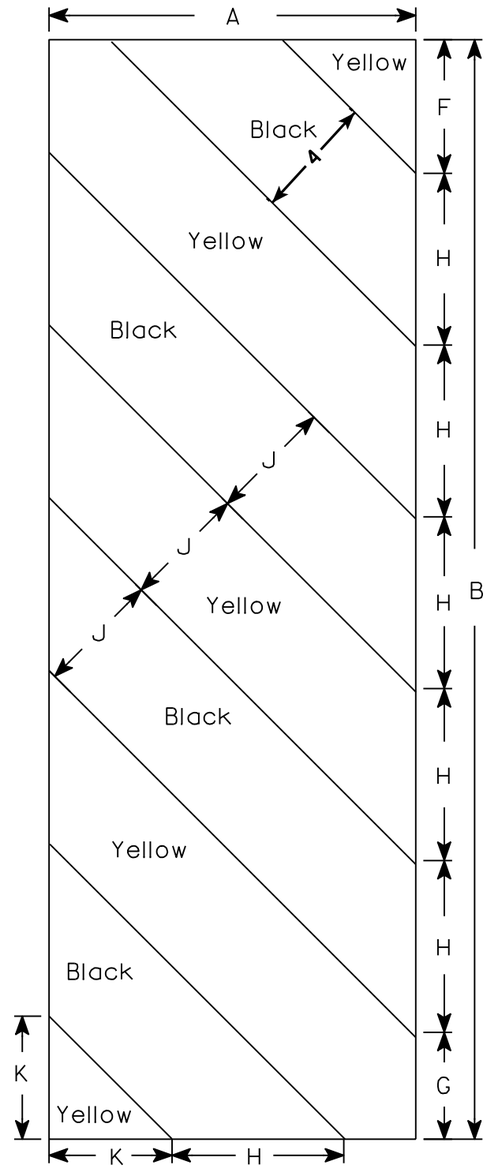
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

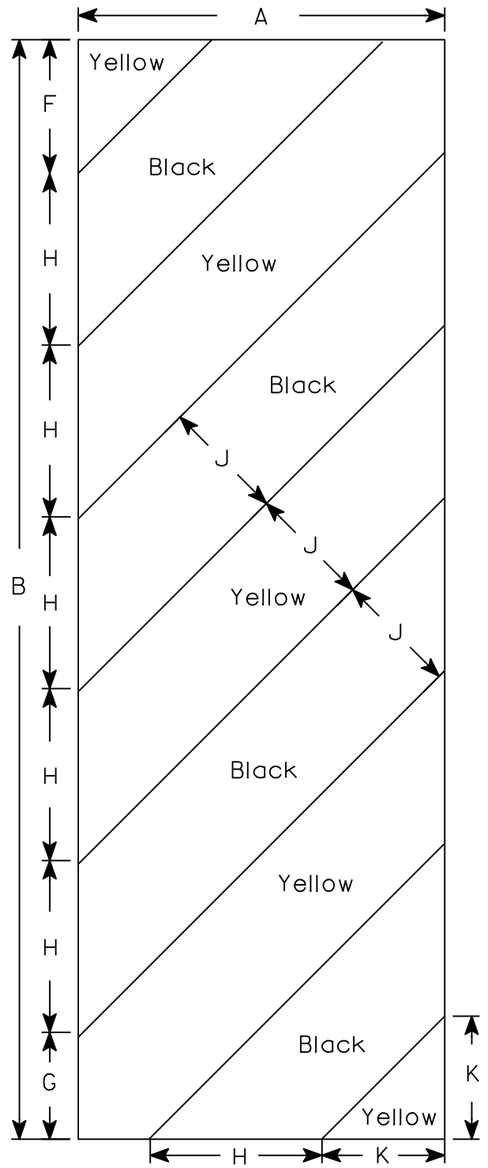
DATE 3/12/13 PLATE NO. W4-2.14

PROJECT NO:

SHEET NO: 192 E



W5-52L



W5-52R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Alternate colors of stripes as shown.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
2M	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
3	18	54				6	5 1/2	8 1/2	45°	6	6 9/16																6.75
4																											
5																											

STANDARD SIGN

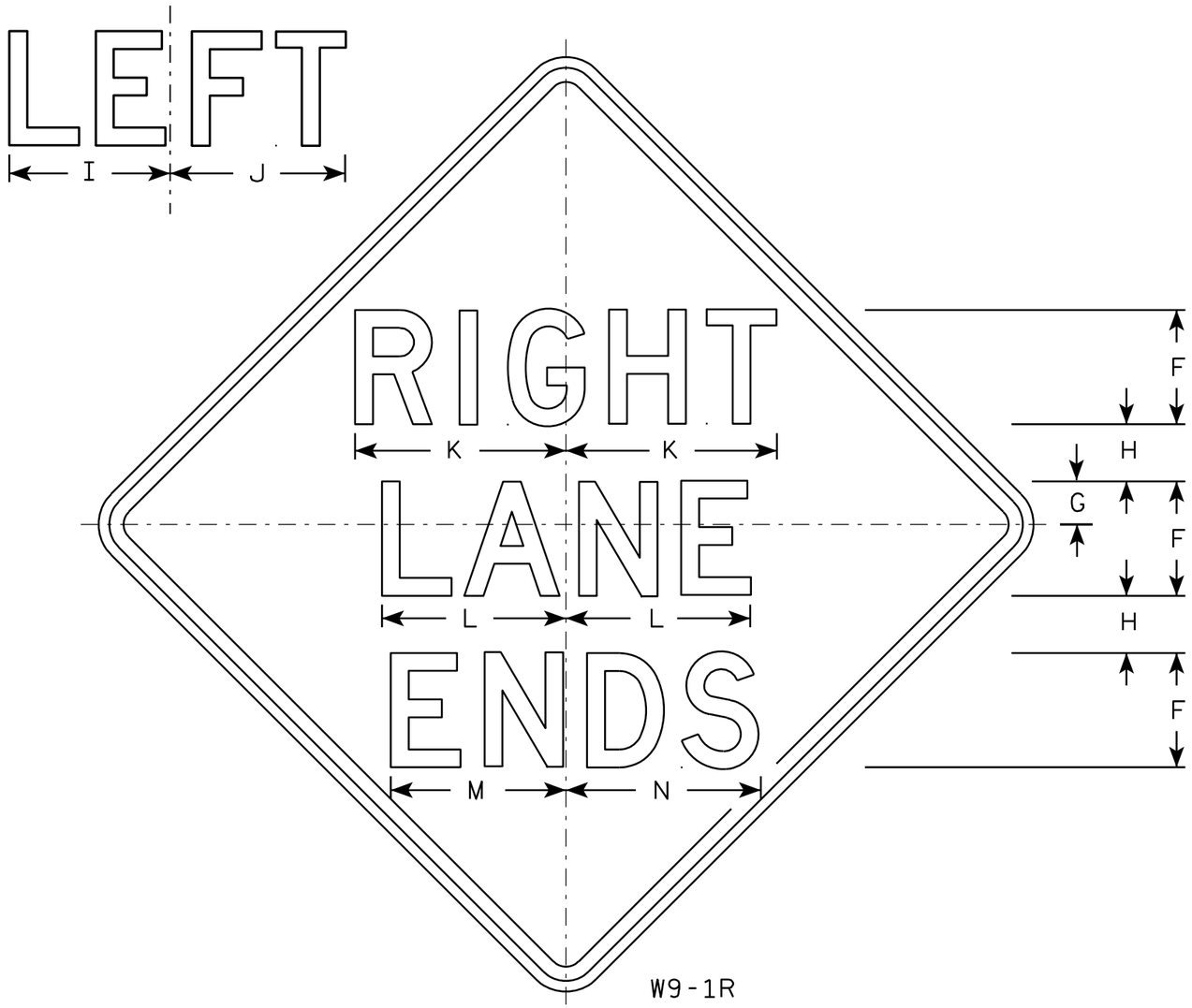
W5-52L & W5-52R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W5-52.9

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 193 | E



W9-1R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. W9-1L same as W9-1R except the word Left replaces Right.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	5	1 1/2	2 1/2	7 1/8	7 5/8	9 1/4	8 1/8	7 5/8	8 5/8													6.25
2S	36		1 5/8	5/8	3/4	6	2	3	8 1/2	9 1/8	11	9 3/4	9	10 3/8													9.0
2M	36		1 5/8	5/8	3/4	6	2	3	8 1/2	9 1/8	11	9 3/4	9	10 3/8													9.0
3	36		1 5/8	5/8	3/4	6	2	3	8 1/2	9 1/8	11	9 3/4	9	10 3/8													9.0
4	36		1 5/8	5/8	3/4	6	2	3	8 1/2	9 1/8	11	9 3/4	9	10 3/8													9.0
5	48		2 1/4	3/4	1	8	3	4	11 1/4	12 1/4	14 3/4	12 7/8	12 1/4	13 5/8													16.0

STANDARD SIGN
W9-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 03/18/13 PLATE NO. W9-1.8

PROJECT NO:

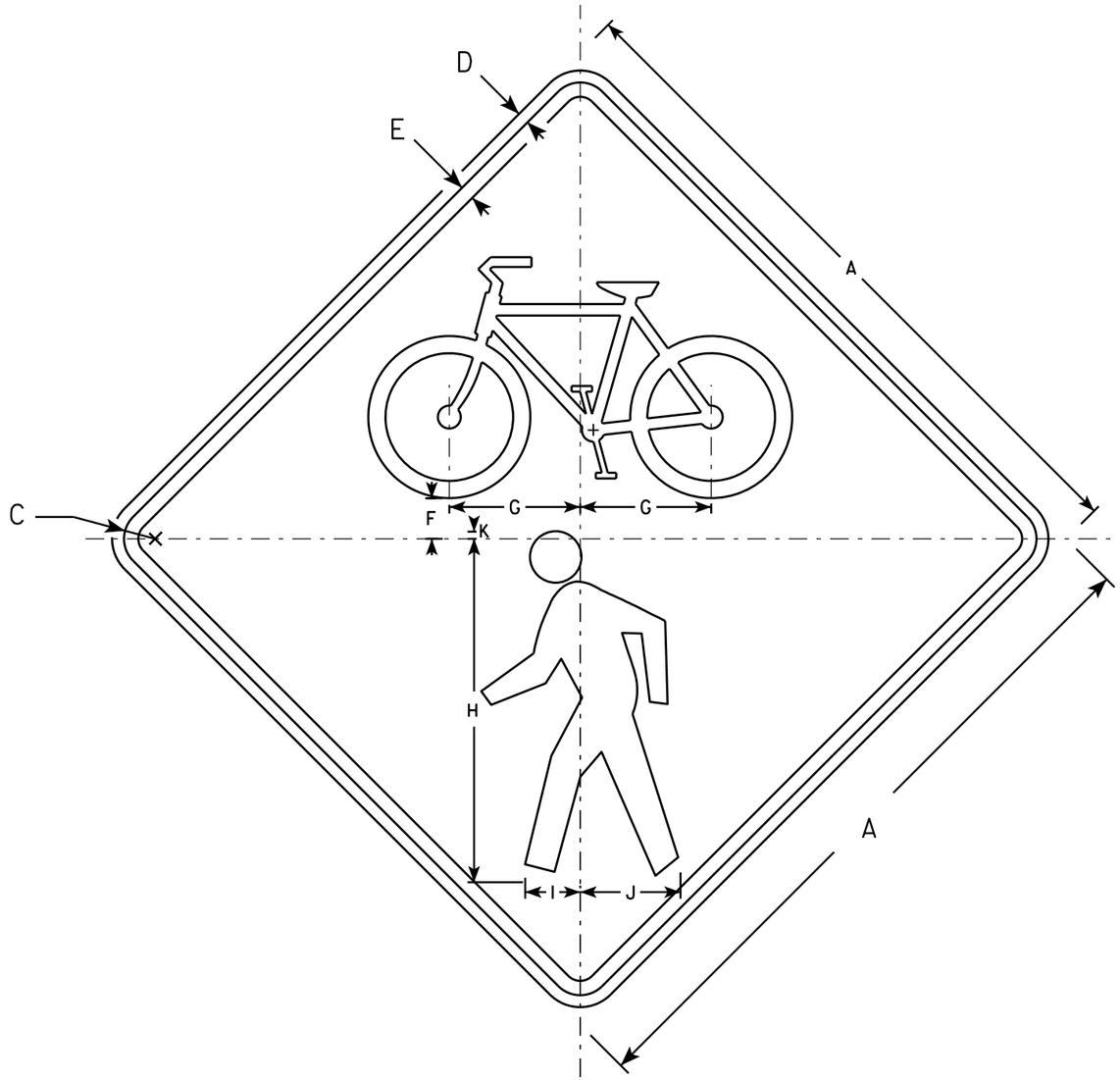
SHEET NO: 194 E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W91.DGN PLOT DATE : 18-MAR-2013 11:42 PLOT BY : mscsja

WISDOT/CADDS SHEET 42

7

7



W11-15

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	1 3/8	4 5/8	12	1 7/8	3 1/2	1/4																4.0
2S	30		1 3/8	1/2	5/8	1 3/4	5 3/4	15	2 3/8	4 3/8	3/8																6.25
2M	36		1 5/8	5/8	3/4	2 1/8	6 7/8	18	2 7/8	5 1/4	3/8																9.0
3	36		1 5/8	5/8	3/4	2 1/8	6 7/8	18	2 7/8	5 1/4	3/8																16.0
4	48		2 1/4	3/4	1	2 7/8	9 1/8	24	3 7/8	7	1/2																16.0
5																											

STANDARD SIGN
W11-15

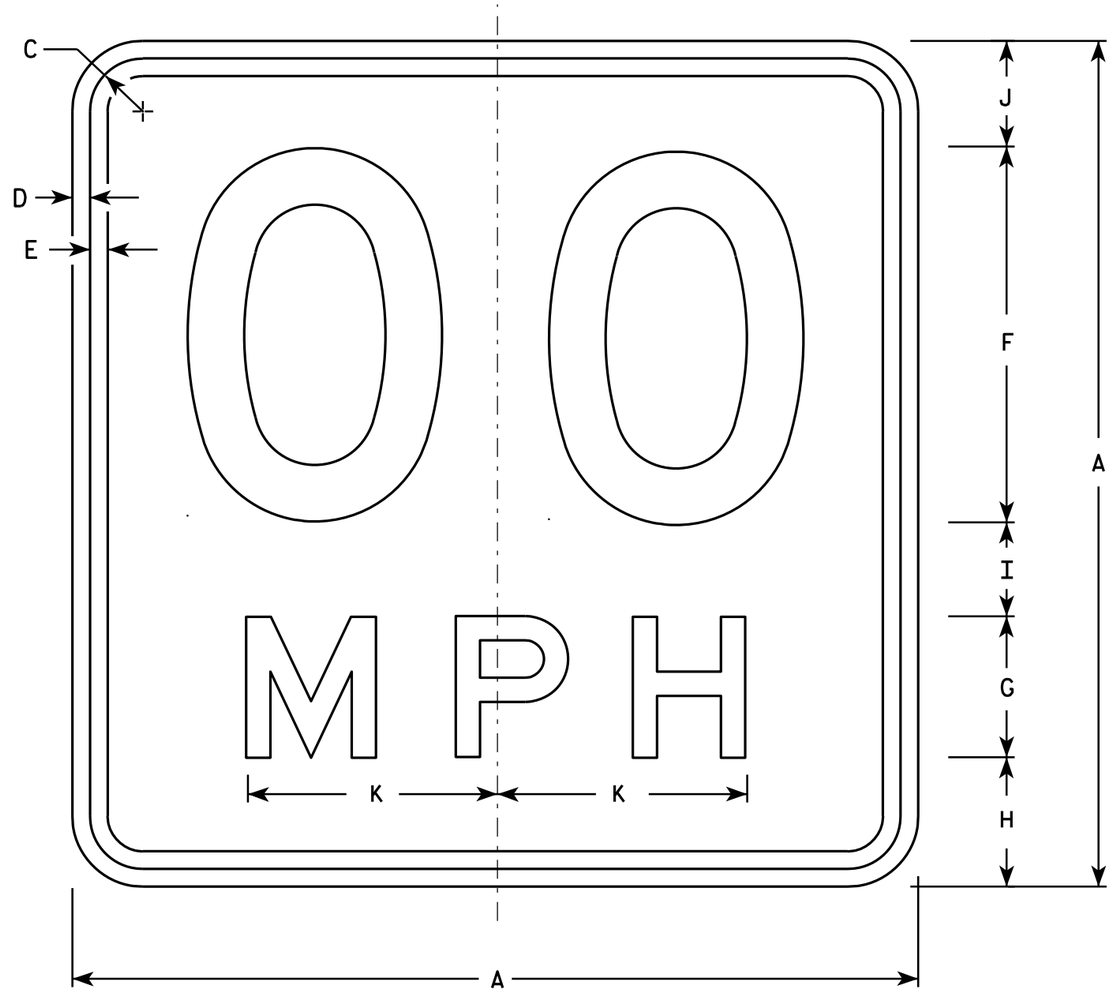
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 2/13/14 PLATE NO. W11-15.4

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W1115.DGN PLOT DATE : 13-FEB-2014 10:54 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 7.783368:1.000000
WISDOT/CADDS SHEET 42



W13-1

* For 30" x 30" Warning Signs, use 18" x 18" W13-1 signs.
For 36" x 36" Warning Signs, use 24" x 24" W13-1 signs.

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - See Note 6
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically space about centerline to achieve proper balance.
6. Line 1 is Series D
   Line 2 is Series E

	SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
	1	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2S	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2M	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
	3	24		1 1/8	3/8	1/2	10	4	4	2 3/4	3 1/4	6 5/8																4.00
	4	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
	5	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00

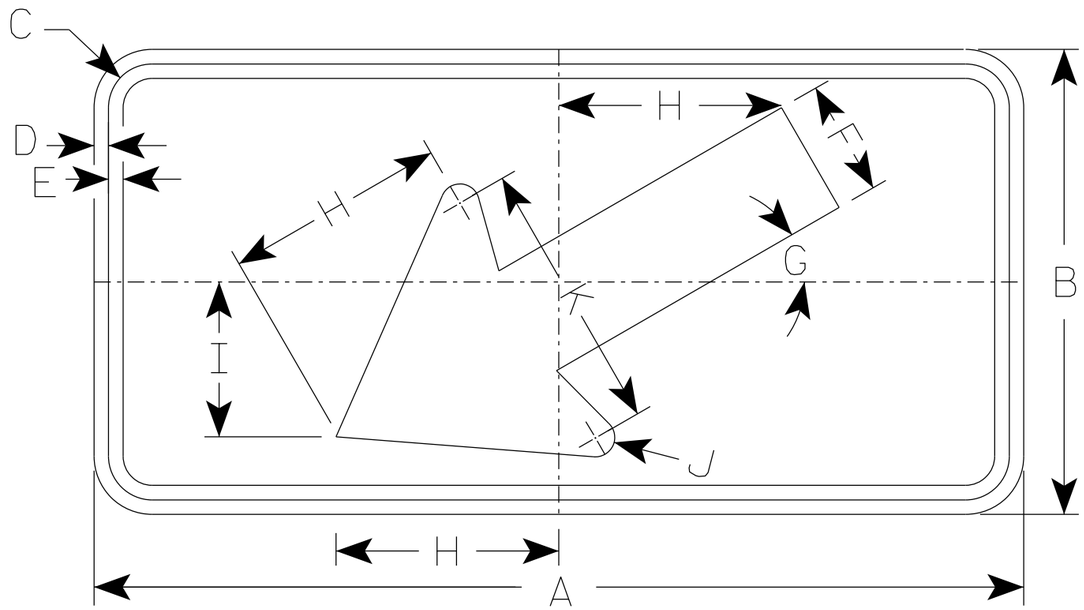
STANDARD SIGN
W13-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 5/31/12 PLATE NO. W13-1.16

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 196 | E



W16-7L

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. W16-7R is the same as W16-7L except the arrow is reversed along the vertical centerline.

* For 36" x 36" Warning Signs, use 30" x 18" W16-7L signs.
* For 48" x 48" Warning Signs, use 48" x 24" W16-7L signs.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 1/8	3/8	3/8	3	30°	5 3/4	4	1/2	7																2.0
* 2M	30	18	1 1/8	3/8	1/2	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
* 3	30	18	1 1/8	3/8	1/2	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
* 4	48	24	1 3/8	1/2	5/8	6	30°	11 1/2	8	1	14																8.0
5																											

STANDARD SIGN
W16-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

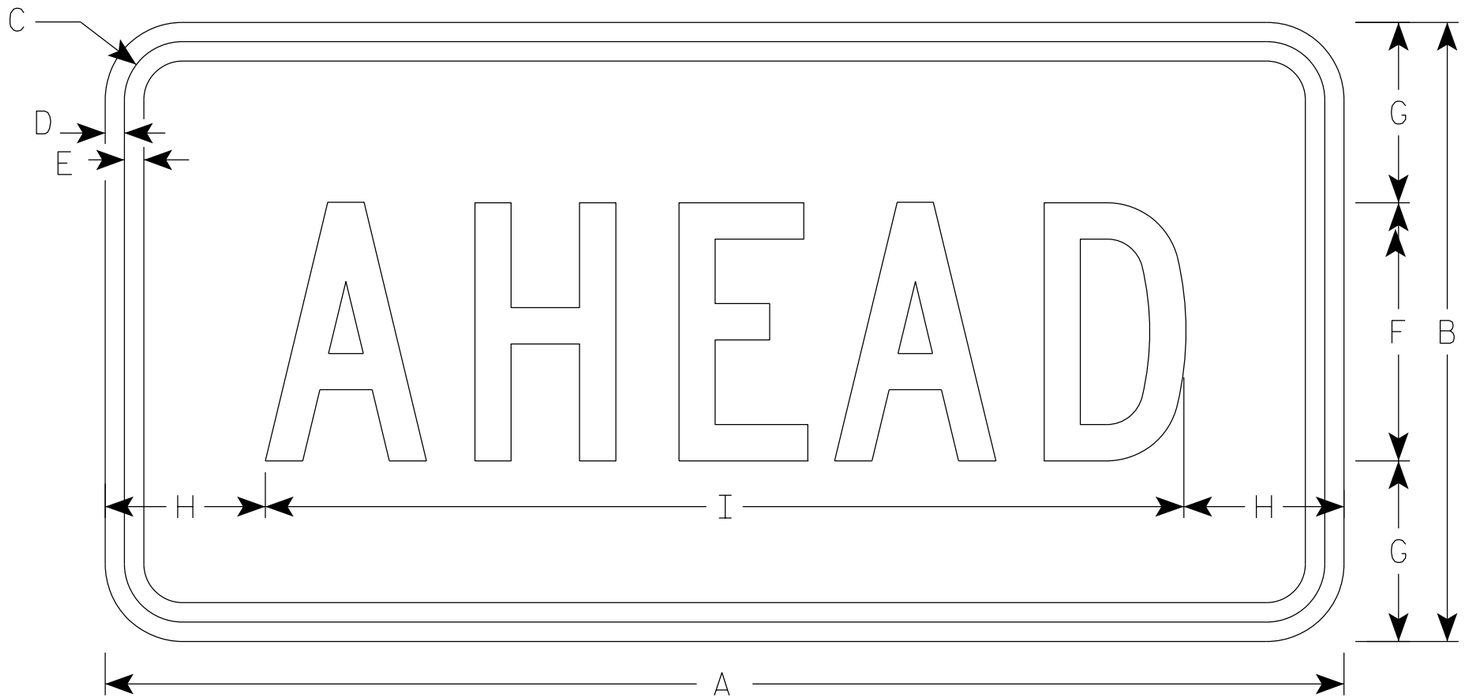
DATE 3/16/2021 PLATE NO. W16-7.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 197	E

7

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - C



W16-9P

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 1/8	3/8	3/8	5	3 1/2	3 1/8	17 3/4																		2.0
2M	30	18	1 1/8	3/8	1/2	7	5 1/2	2 3/4	24 1/2																		3.75
3	30	18	1 1/8	3/8	1/2	7	3 1/2	2 3/4	24 1/2																		3.75
4	48	24	1 3/8	1/2	5/8	10	7	6 1/8	35 3/4																		8.0
5																											

STANDARD SIGN
W16-9P

WISCONSIN DEPT OF TRANSPORTATION

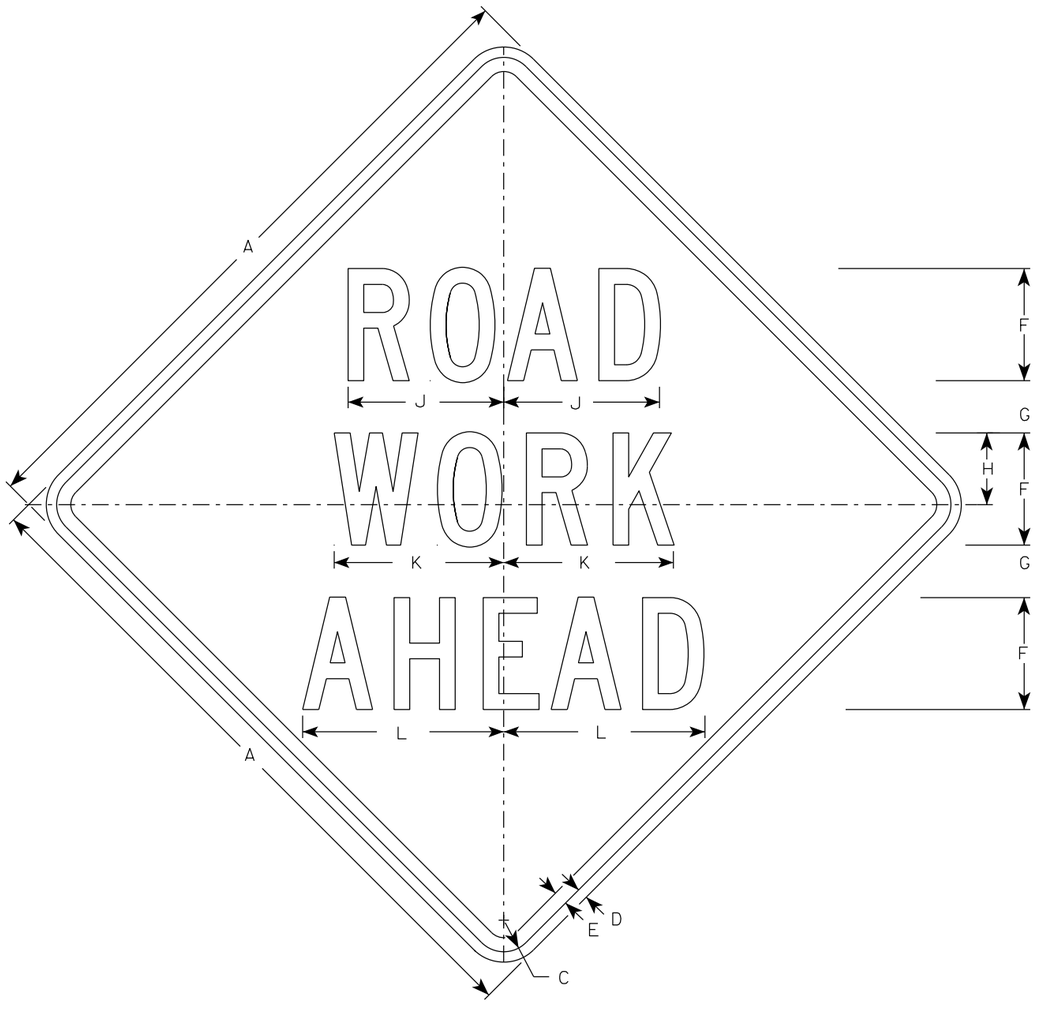
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/7/19 PLATE NO. W16-9P.7

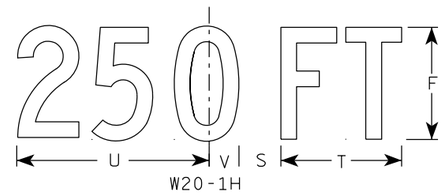
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 198 E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W169P.DGN PLOT DATE : 07-MAR-2019 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

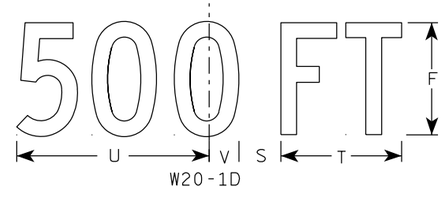
7



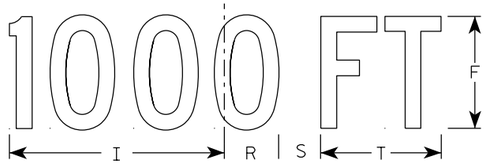
W20-1A



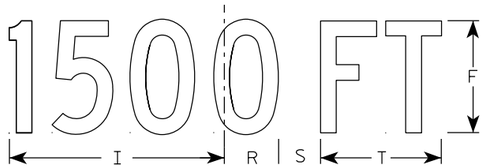
W20-1H



W20-1D



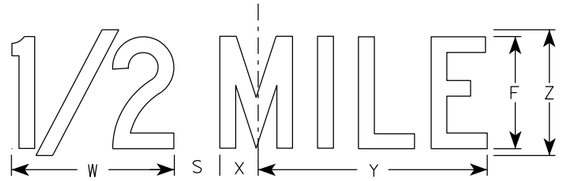
W20-1C



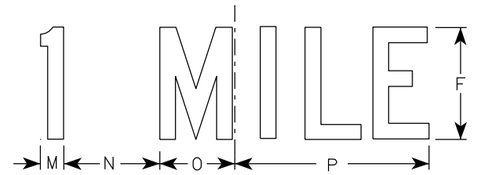
W20-1B

NOTES

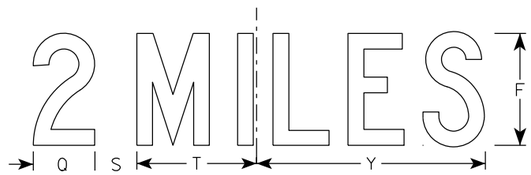
1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



W20-1G



W20-1F



W20-1E

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 7/8	1 1/8	4 1/2	3 1/2	9	3 1/4	2 1/2	2 1/4	5 5/8	9	1 3/8	8	1 3/4	10 3/4	6	9.0
2S	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
2M	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
3	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
4	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
5	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0

STANDARD SIGN
W20-1A, B, C, D, E, F, G & H

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/25/2020 PLATE NO. W20-1.11

PROJECT NO:

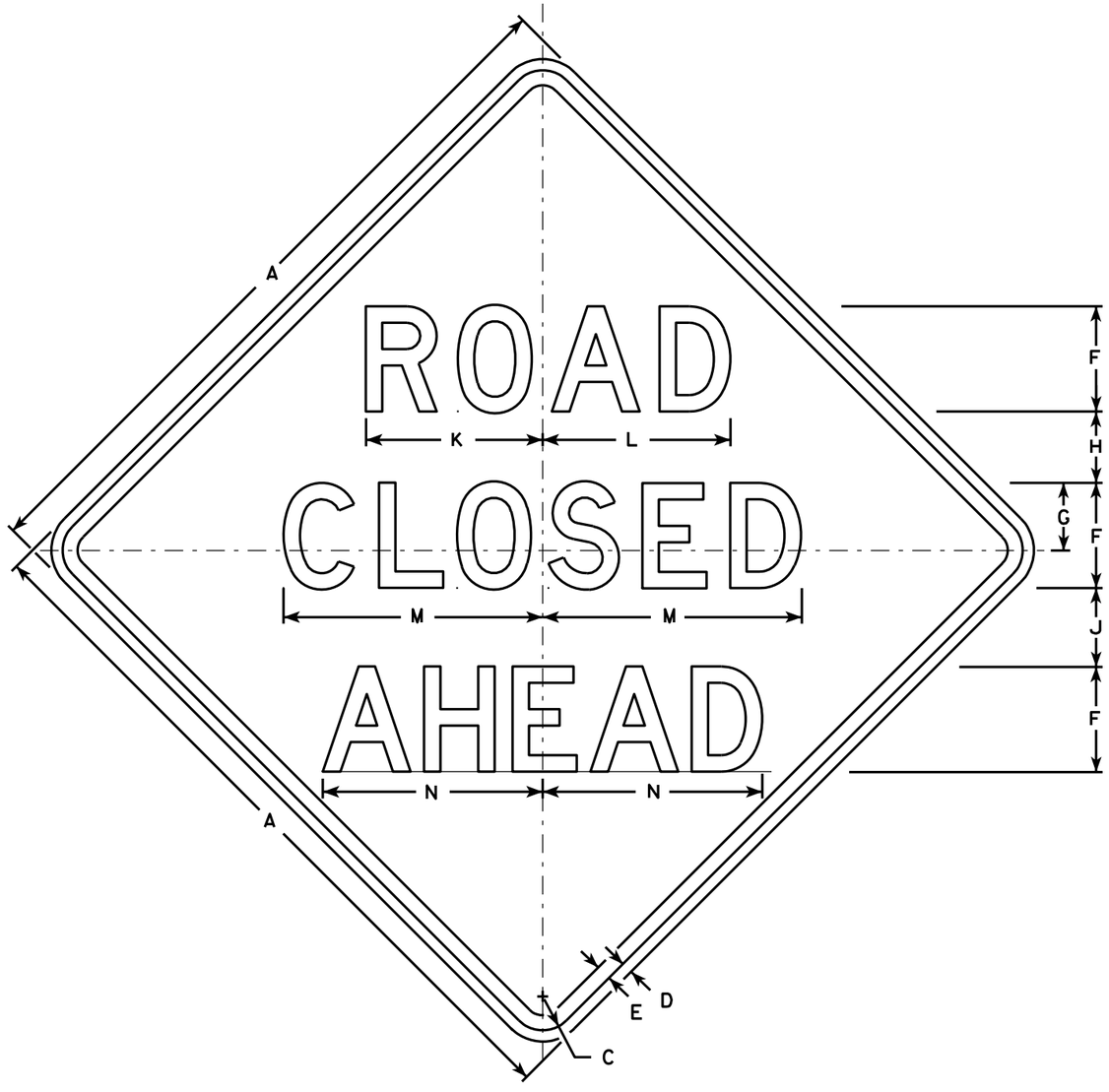
SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN PLOT DATE : 25-MARCH-2020 PLOT BY : dotc4c

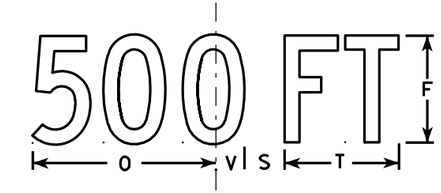
WISDOT/CADDS SHEET 42

7

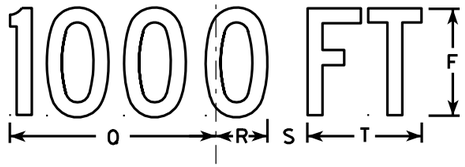
7



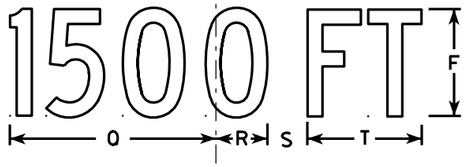
W20-3A



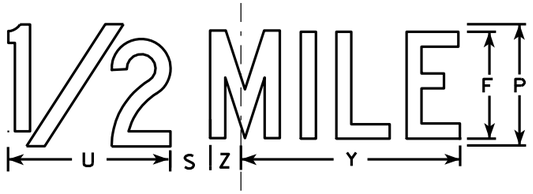
W20-3D



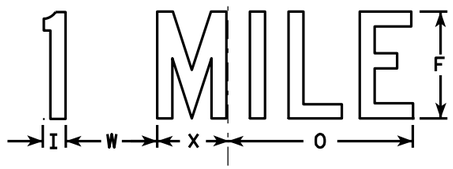
W20-3C



W20-3B



W20-3G



W20-3F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - see note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1 and 2 are Series D.
   Line 3 is Series D for AHEAD and Series C for all other distances.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	3 3/8	3 1/2	1 1/8	4	8 3/8	8 7/8	12 1/2	11	9	6	10 1/8	2 1/2	1 7/8	5 5/8	8	1 3/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
3	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
4	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
5	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0

STANDARD SIGN
W20-3A, B, C, D, F & G

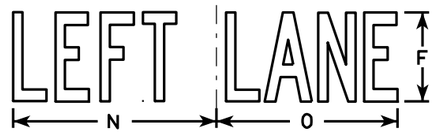
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer
DATE 3/18/11 PLATE NO. W20-3.7

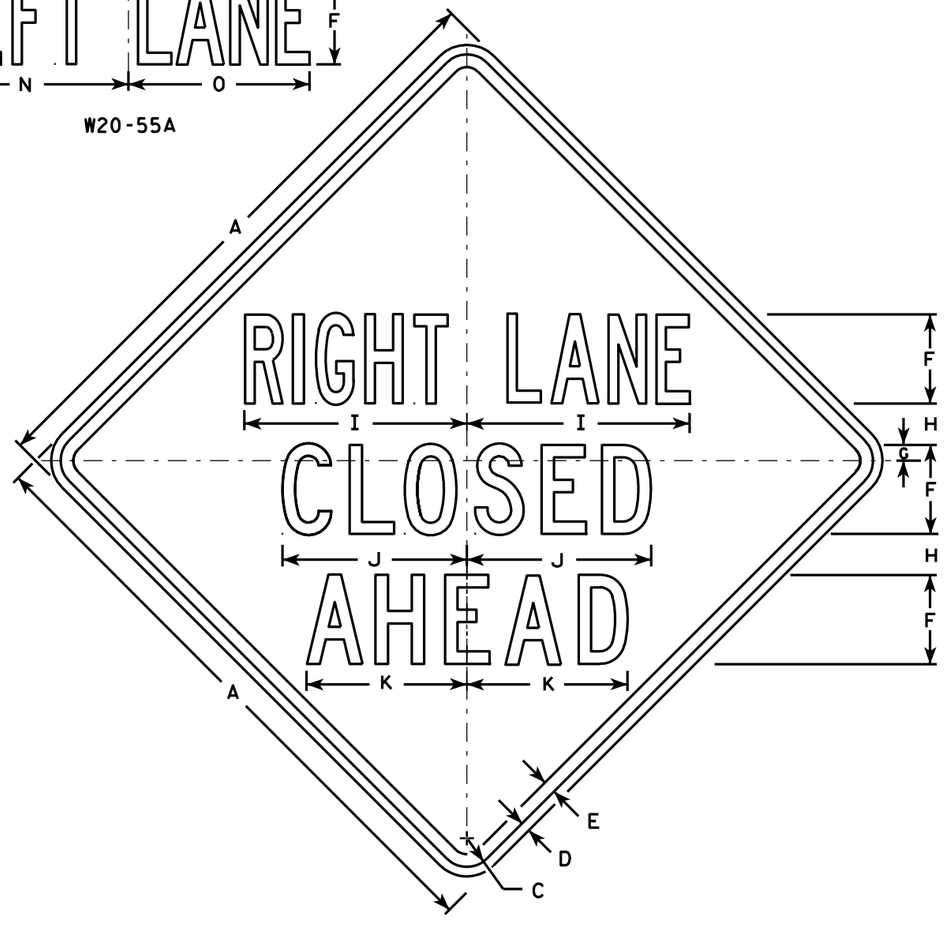
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 200 | E



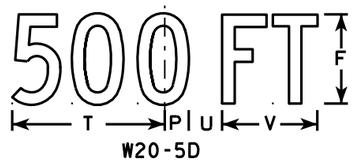
W20-56A



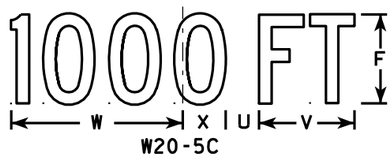
W20-55A



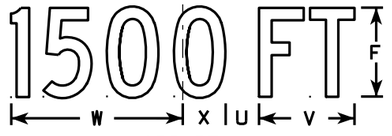
W20-5A



W20-5D



W20-5C



W20-5B



W20-5G



W20-5F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. " _____ LANE" is Series B.
   All other copy is Series C.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	6	1 5/8	5/8	3/4	5	1/8	2 1/2	13 1/8	10 3/4	9 1/2	14 1/4	13 5/8	12	12	1 3/8	1 1/8	4 1/2	3 1/2	9	1 1/8	5 5/8	10 1/8	2 1/2	1 3/4	8	9.0
2S	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
2M	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
3	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
4	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
5	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0

STANDARD SIGN
W20-5A, B, C, D, F & G

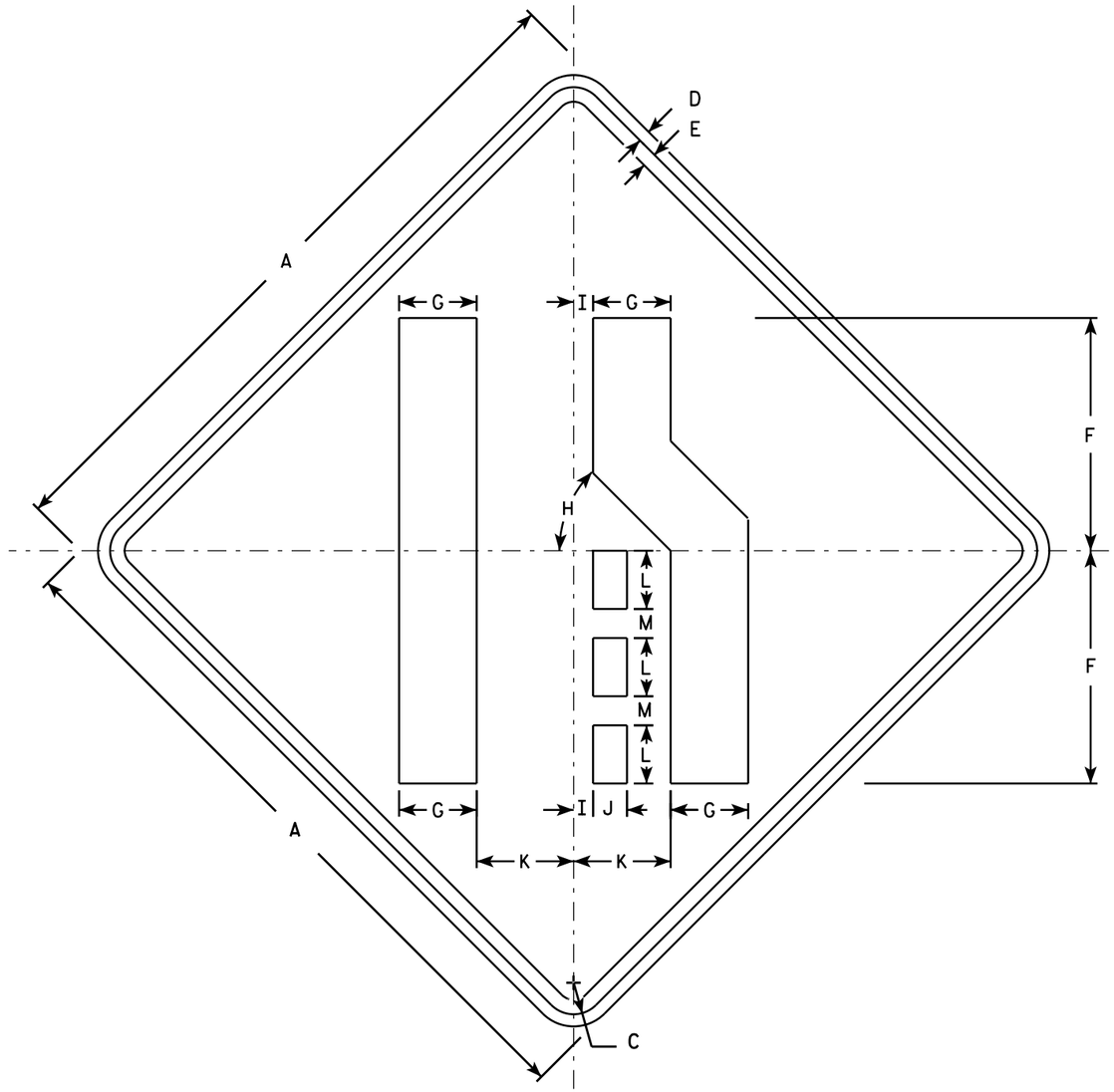
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-5.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 201 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W205.DGN PLOT DATE : 18-MAR-2011 12:15 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 11.918087:1.000000
WISDOT/CADDS SHEET 42



W04-2R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W04-2L is the same as W04-2R except the symbol is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
2S	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
2M	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
3	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
4	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
5	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0

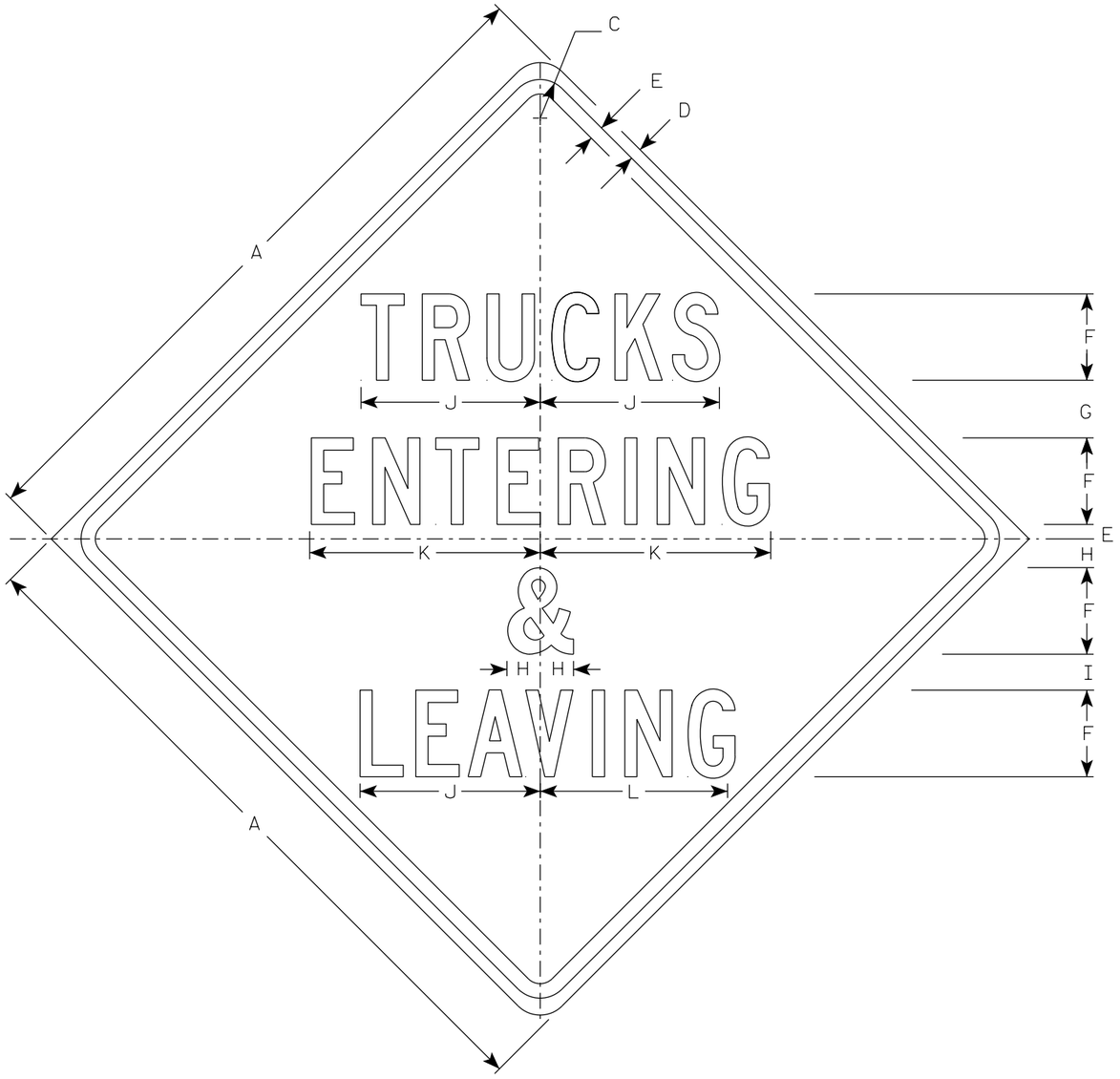
STANDARD SIGN
W04-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE 202 W04-2.1

PROJECT NO: | SHEET NO: E



W08-6A

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 3/8	1/2	5/8	4 1/2	3	1 1/2	1 7/8	9 3/8	12	9 3/4															9
2S	48		2 1/4	3/4	1	6	4	2	2 1/2	12 1/2	16	13															16
2M	48		2 1/4	3/4	1	6	4	2	2 1/2	12 1/2	16	13															16
3	48		2 1/4	3/4	1	6	4	2	2 1/2	12 1/2	16	13															16
4	48		2 1/4	3/4	1	6	4	2	2 1/2	12 1/2	16	13															16
5	48		2 1/4	3/4	1	6	4	2	2 1/2	12 1/2	16	13															16

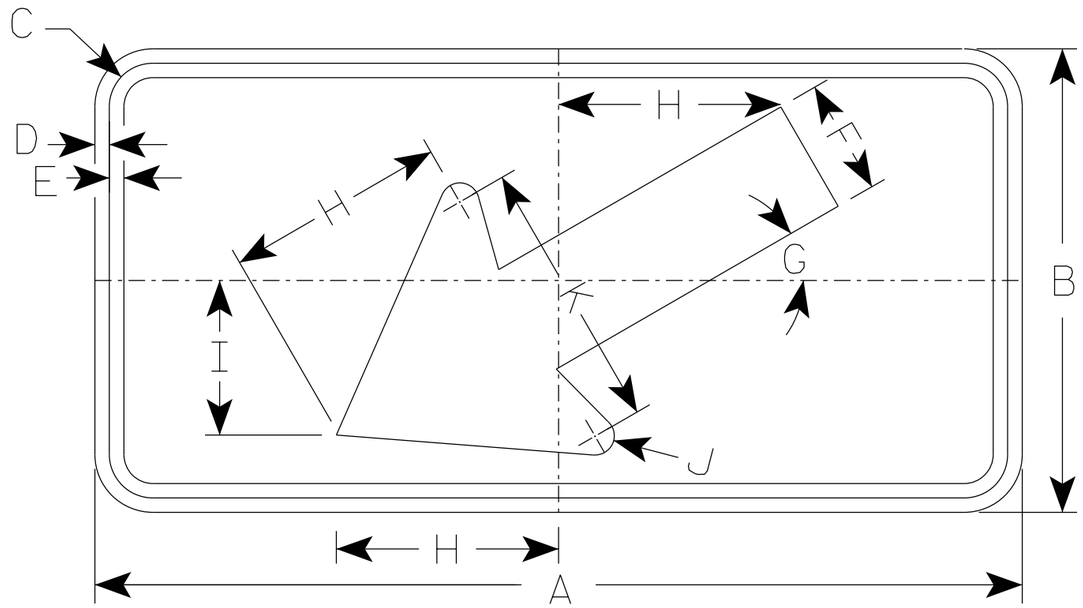
STANDARD SIGN
W08-6A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/15/2020 PLATE NO. W08-6A.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 203 E



W016-7L

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded but corners shall be rounded when base material is metal.
4. W016-7R is the same as W016-L except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30	18	1 1/8	3/8	1/2	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
2S	48	24	1 3/8	1/2	5/8	6	30°	11 1/2	8	1	14																8.0
2M	48	24	1 3/8	1/2	5/8	6	30°	11 1/2	8	1	14																8.0
3	48	24	1 3/8	1/2	5/8	6	30°	11 1/2	8	1	14																8.0
4	48	24	1 3/8	1/2	5/8	6	30°	11 1/2	8	1	14																8.0
5	48	24	1 3/8	1/2	5/8	6	30°	11 1/2	8	1	14																8.0

STANDARD SIGN
W016-7

WISCONSIN DEPT OF TRANSPORTATION

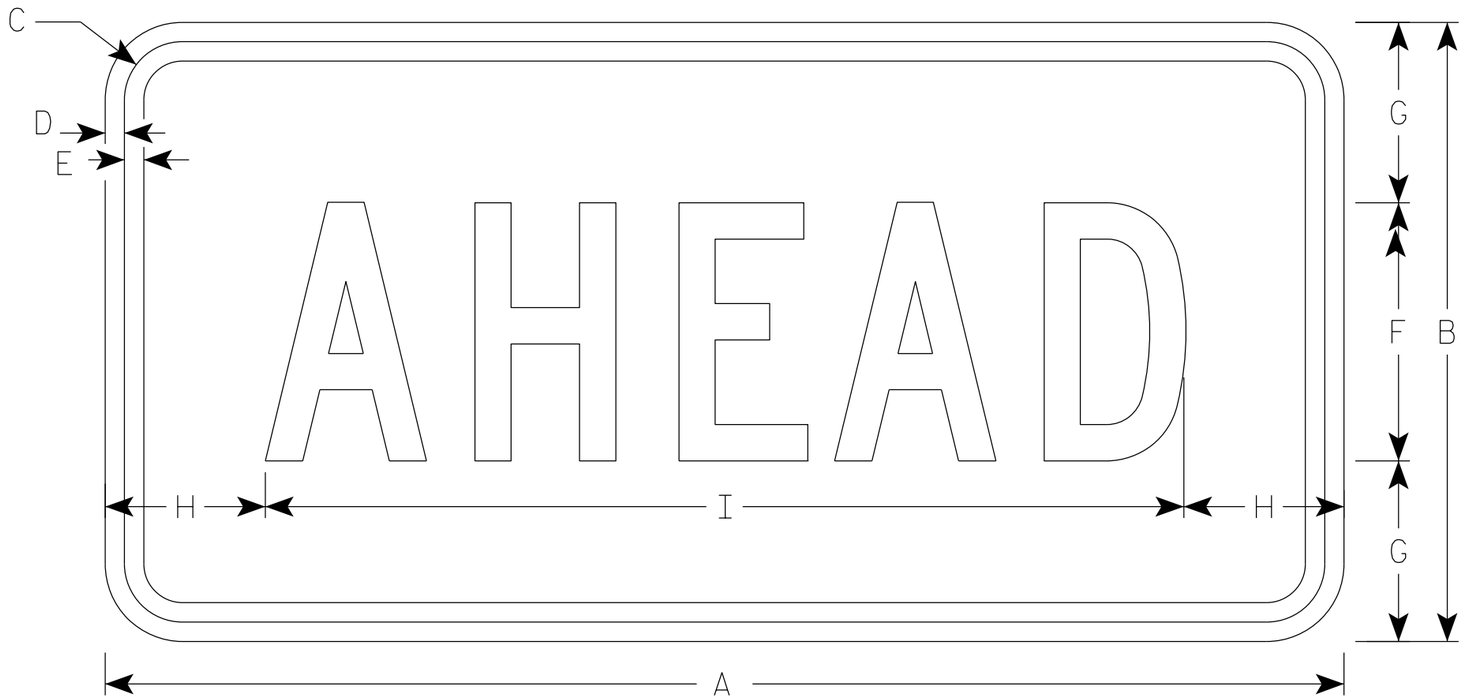
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/16/2021 PLATE NO. W016-7.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 204	E

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - C



W16-9P

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 1/8	3/8	3/8	5	3 1/2	3 1/8	17 3/4																		2.0
2M	30	18	1 1/8	3/8	1/2	7	5 1/2	2 3/4	24 1/2																		3.75
3	30	18	1 1/8	3/8	1/2	7	3 1/2	2 3/4	24 1/2																		3.75
4	48	24	1 3/8	1/2	5/8	10	7	6 1/8	35 3/4																		8.0
5																											

STANDARD SIGN
W16-9P

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/7/19 PLATE NO. W16-9P.7

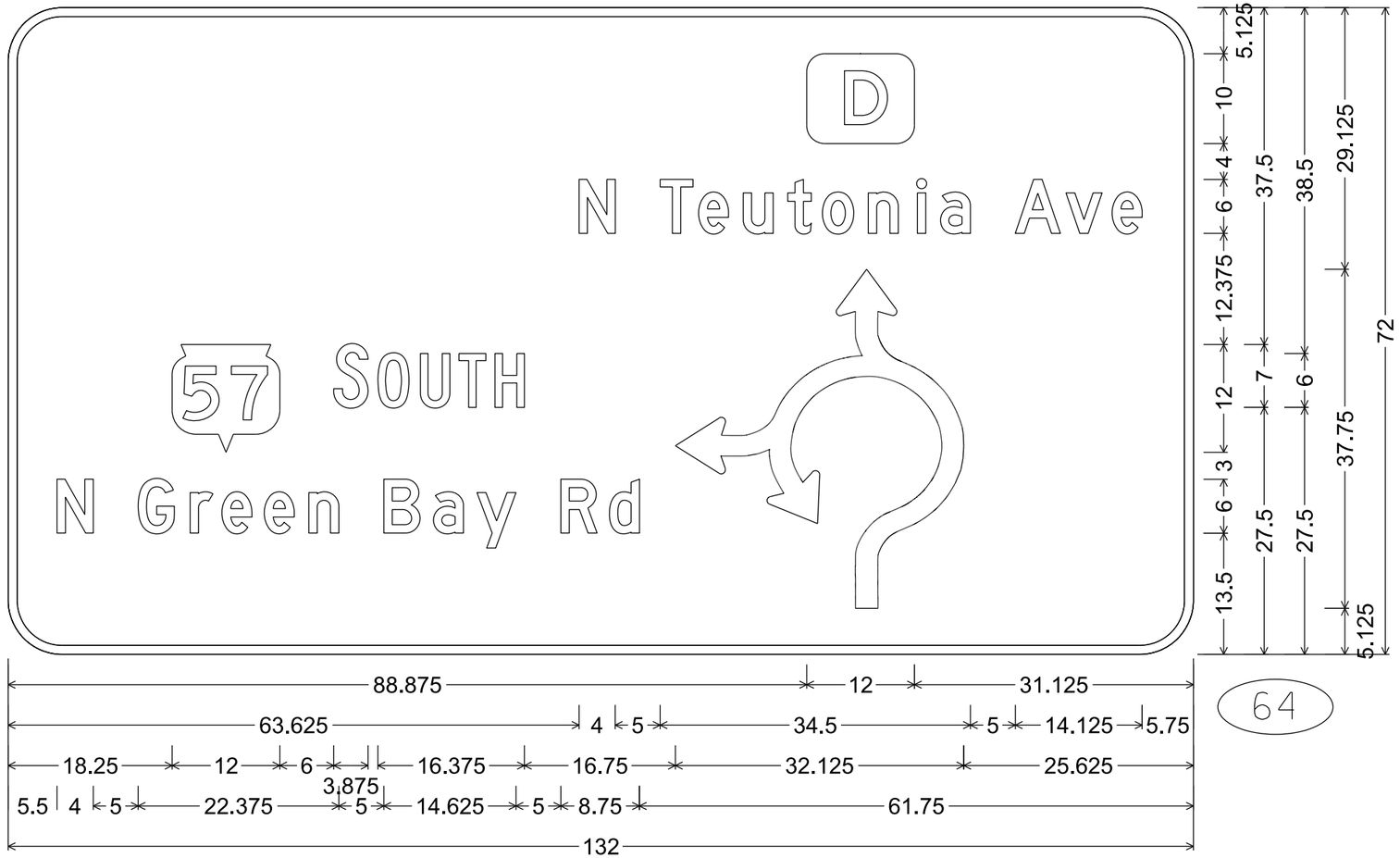
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 205 E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W169P.DGN PLOT DATE : 07-MAR-2019 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

7

NOTES

1. All Signs Type II - Type H Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - D except as noted

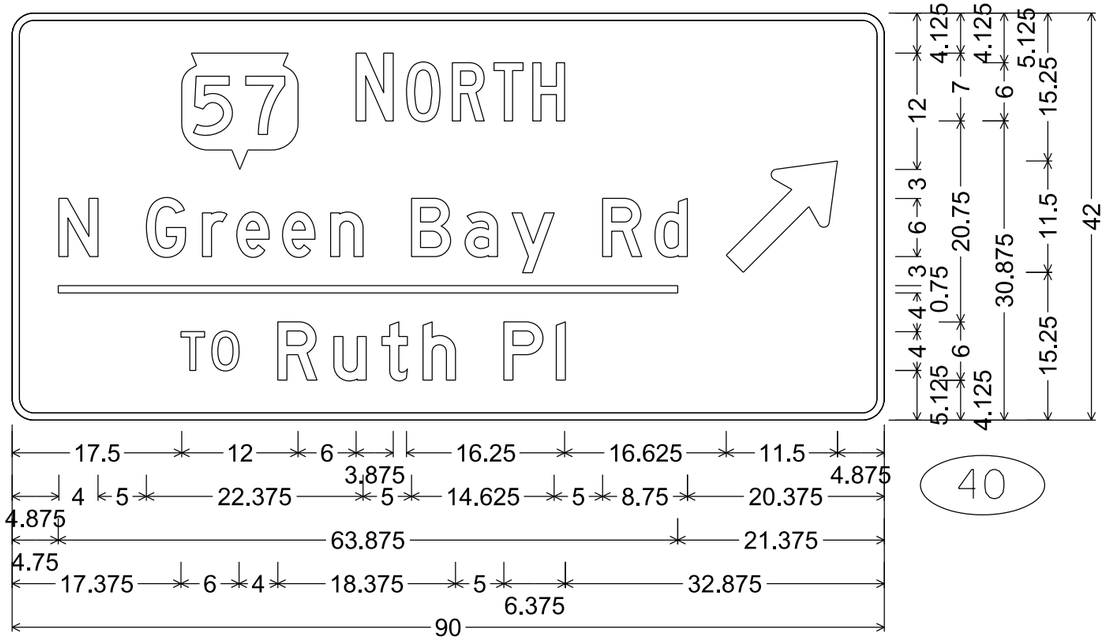


D1-62; 6.000" Radius, 1.000" Border,
"SOUTH", C

PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET NO: 206	E

NOTES

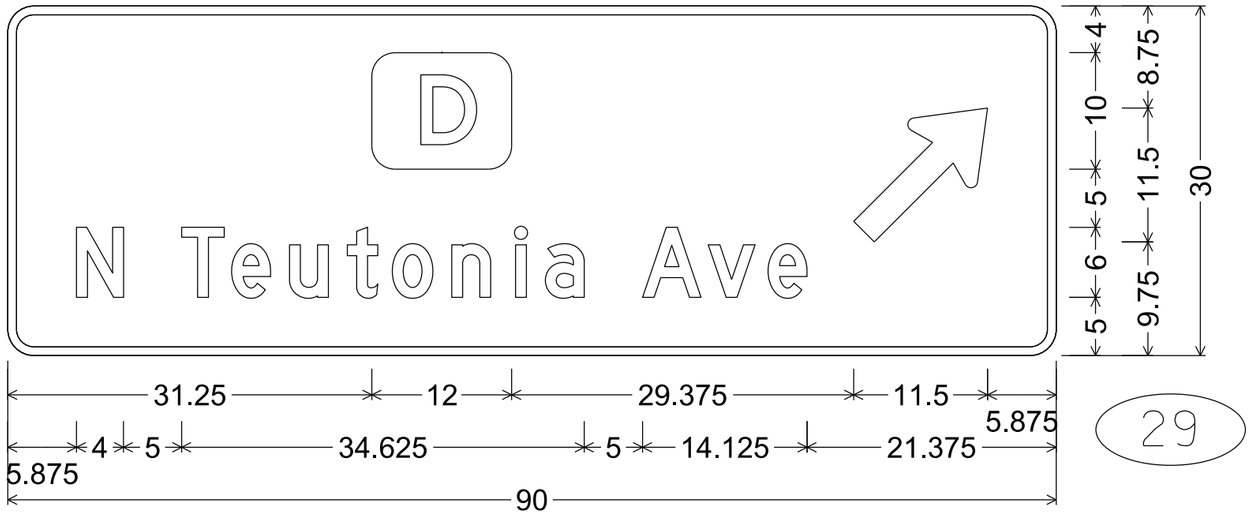
1. All Signs Type II - Type H Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - D except as noted



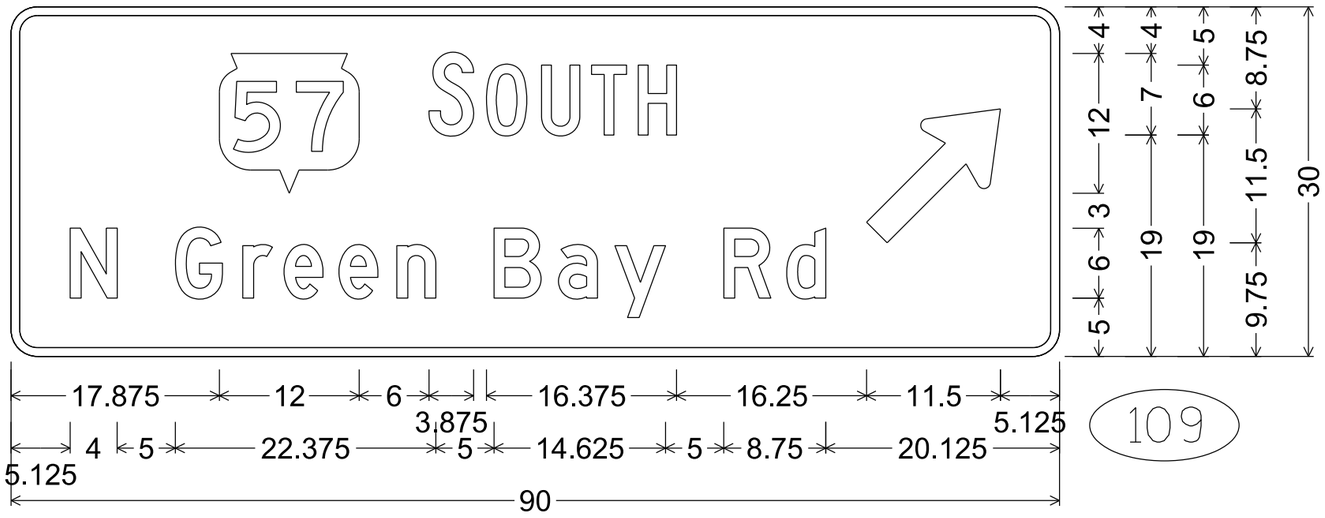
D1-2; 2.250" Radius, 0.750" Border,
"NORTH", C

NOTES

1. All Signs Type II - Type H Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - D except as noted



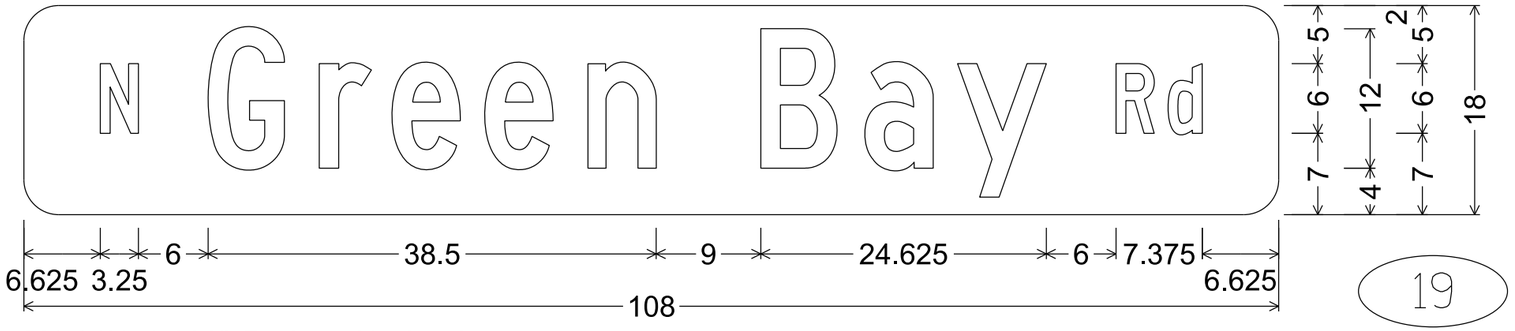
D1-2; 2.250" Radius, 0.750" Border



D1-2; 2.250" Radius, 0.750" Border,
"SOUTH", C

NOTES

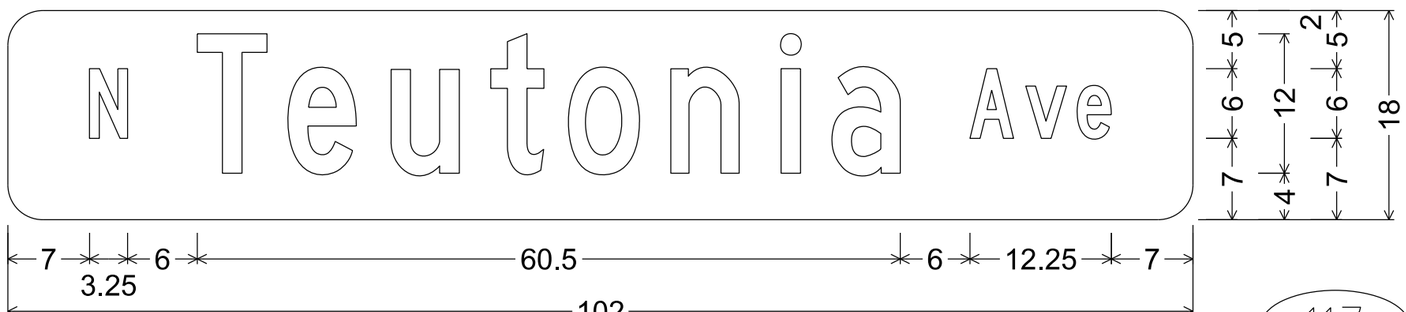
1. All Signs Type II - Type H Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - C



M1-94H; 3.000" Radius, No border

19

57



M1-94H; 3.000" Radius, No border

113

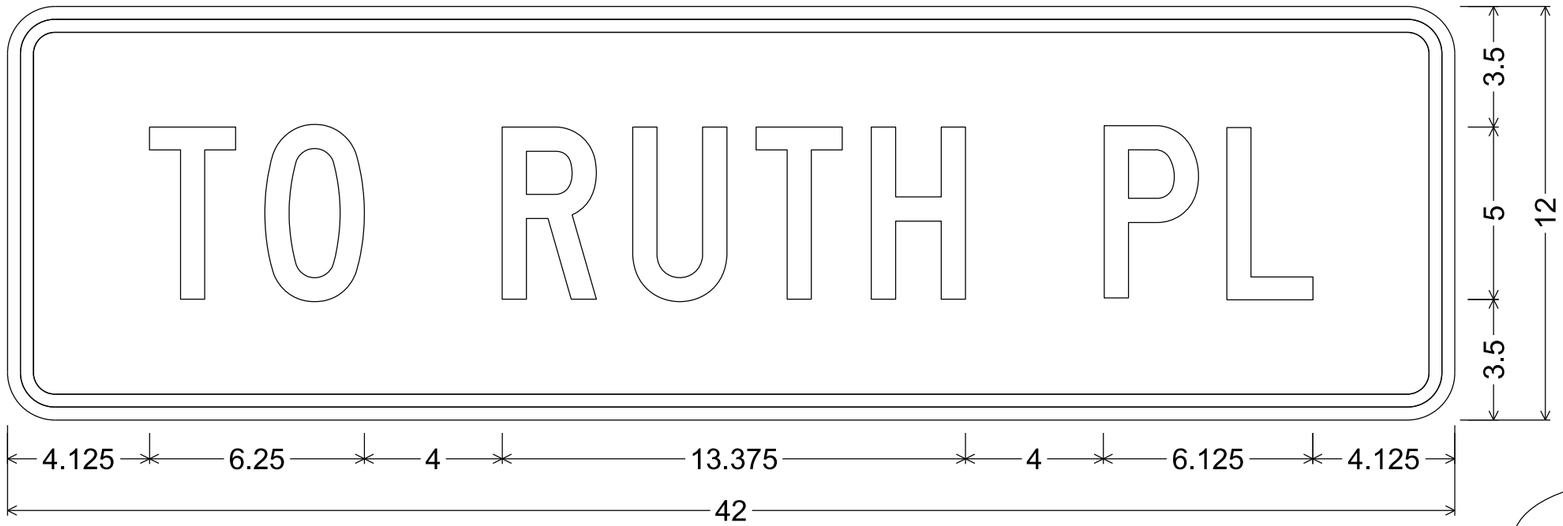
7

7

PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET NO: 209	E

NOTES

1. All Signs Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - C



1.375" Radius, 0.375" Border, 0.375" Indent

111A

DESIGN DATA

CONTRACTOR DESIGNED OVERHEAD SIGN STRUCTURES SHALL BE DESIGNED ACCORDING TO THE AASHTO "LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS", 1ST EDITION AND INTERIM SPECIFICATIONS, AND THE WISDOT BRIDGE MANUAL.

THE FOLLOWING INFORMATION SHALL BE USED IN THE DESIGN:
DEAD LOAD - WT. OF SIGN AND SUPPORTING STRUCTURE.
ICE LOAD - 3 PSF TO ONE FACE OF SIGN & AROUND SURFACE OF MEMBERS.
WIND PRESSURE - 115 MPH (3-SEC. GUST SPEED) TO SIGN AREA & EXPOSED MEMBERS. (700 YEAR MEAN RECURRENCE INTERVAL)

WIND COMPONENTS	NORMAL	TRANSVERSE
LOAD CASE 1	1.0	0.0
LOAD CASE 2	0.0	1.0
LOAD CASE 3	0.75	0.75

LOAD COMBINATIONS

STRENGTH I:	1.25 DC + 1.6 LL	
EXTREME I	(MAX DC): 1.1 DC + 1.0 W + 1.0 ICE	
EXTERME I	(MIN DC): 0.9 DC + 1.0 W	
SERVICE I:	1.0 DC + 1.0 W	
FATIGUE I:	1.0 NWG (NATURAL WIND GUST VIBRATION)	
	1.0 TrG (TRUCK INDUCED GUST VIBRATION)	
	1.0 GVW (GALLOPING INDUCED VIBRATION)	- CANTILEVER ONLY

STANDARD FOUNDATIONS ARE DESIGNED ACCORDING TO THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION.

MATERIAL PROPERTIES

CONCRETE MASONRY. . . . . .f'c = 3,500 psi

HIGH STRENGTH STEEL
REINFORCEMENT, GRADE 60 . . . . . :fy = 60,000 psi

HIGH STRENGTH BOLTS - A325. . . . . :fy = 92,000 psi

ANCHOR RODS - ASTM F1554 GRADE 55 . . . :fy = 55,000 psi

HEAVY HEX NUTS FOR ANCHOR RODS - ASTM A563A

WASHERS FOR ANCHOR RODS - ASTM F436

FOUNDATION DATA

Sign structure foundations are supported on drilled shafts that have been designed for sites where soils exhibit a phi-angle greater than or equal to 24^ (granular soils), or a cohesion value greater than or equal to 750 psf (cohesive soils) and a unit weight of 125 pcf. the ground water table is assumed to be at a depth of 10'-0" below the ground surface. The Region Geotechnical Engineer shall visually inspect the subsurface soils during drilling of the shaft hole to confirm these properties prior to placement of the drilled shaft concrete.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

ALTERNATE DESIGNS ARE NOT ALLOWED.

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), MILWAUKEE COUNTY ZONE, NAD 1983 (2011). ALL STATIONS AND ELEVATIONS ARE IN FEET. ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988, NAVD 88 (2011) ADJUSTED.

ALL REINFORCING BARS ARE IN ENGLISH UNITS. THE FIRST DIGIT OF A THREE-DIGIT BAR MARK OR THE FIRST TWO DIGITS OF A FOUR-DIGIT BAR MARK SIGNIFIES THE BAR SIZE.

SIGN BRIDGE ID PLAQUES SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "OVERHEAD SIGN STRUCTURE XXXXXXX" FOR EACH APPLICABLE SIGN STRUCTURE IN THE PLAN SET. LOCATE THE ID PLAQUE ON THE FREEWAY SIDE OF THE SUPPORT COLUMN SO THAT IT CAN BE SEEN FROM THE ROADWAY. FABRICATE AND INSTALL THE ID PLAQUE IN ACCORDANCE WITH S.D.D. 12 A 4-3.

ALL H.S. BOLTED CONNECTIONS SHALL BE MADE WITH *f*" DIA A325 GALVANIZED BOLTS. FIELD CONNECTIONS SHALL BE INSTALLED WITH DTI WASHERS.

CONNECTIONS CAN EITHER BE WELDED OR BOLTED CONNECTIONS. IF WELDED CONNECTIONS ARE USED, THE MONOTUBE OR 2-CHORD TRUSS UNIT SHALL BE GALVANIZED AS ONE PIECE.

WELD TEST AS PER AWS D1.1.

SEE SIGN PLATE NO. A4-7A & A4-7B OF THE SIGN PLATE MANUAL FOR INSTRUCTIONS ON CENTERING SIGNS VERTICALLY ON THE TRUSS.

SIGNS OR BLANKS SHALL BE INSTALLED ON TRUSS AT TIME OF ERECTION. FOR FULL SPAN OR CANTILEVER 2-CHORD TRUSSES, BLANKS SHALL BE 1/4 THE LENGTH OF THE SPAN, 2'-0" DEEPER THAN THE C/L TO C/L OF CHORDS, AND SHALL BE CENTERED ON THE SPAN. FOR FULL SPAN OR CANTILEVER MONOTUBES, BLANKS SHALL BE 1/4 THE LENGTH OF THE SPAN, 4'-0" IN HEIGHT, AND SHALL BE CENTERED ON THE SPAN. SIGNS SHALL BE AS DESIGNATED ON THE PLANS.

THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION OF THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE.

CONTRACTOR SHALL SUBMIT SHOP DRAWINGS PER THE REQUIREMENTS IN THE STANDARD SPECIFICATIONS PRIOR TO FABRICATION OF THE STRUCTURE. CONTRACTOR SHALL SHOW SIGNS ON SHOP DRAWINGS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DRILLING OR EXCAVATING AND MAINTAINING A STABLE AND OPEN HOLE FOR SUBSEQUENT INSTALLATION OF CONCRETE MASONRY FOR THE DRILLED SHAFTS. PARTIAL OR FULL DEPTH TEMPORARY CASING MAY BE REQUIRED TO MAINTAIN THE STABILITY OF THE EXCAVATED HOLE FOR THE SIGN SUPPORT PRIOR TO FILLING THE HOLE WITH CONCRETE. PERMANENT CASING MADE FROM STEEL OR CORRUGATED METAL PIPE MAY BE USED IN LIEU OF TEMPORARY CASING. TEMPORARY/PERMANENT CASING, IF USED, SHALL BE INCIDENTAL TO THE BID ITEM "FOUNDATION DRILLING".

STRUCTURE DATA

SIGN STR	ACTUAL SIGN AREA	ACTUAL SIGN HEIGHT	STANDARD FOOTING TYPE
S-40-669	41.5 SF	4'	MC-III
S-40-3090	41.5 SF	4'	MC-III
S-40-3091	44.25 SF	5'	MC-III

LIST OF DRAWINGS

1. GENERAL NOTES & DESIGN DATA
2. GENERAL LAYOUT S-40-669
3. GENERAL LAYOUT S-40-3090
4. GENERAL LAYOUT S-40-3091

LIST OF OSS STANDARD DESIGN DRAWINGS

I MONOTUBE & 2-CHORD TRUSS DETAILS 1
II MONOTUBE & 2-CHORD TRUSS DETAILS 2
III MONOTUBE & 2-CHORD TRUSS FOUNDATION DETAILS

N

STATE PROJECT NUMBER

2565-07-70

TRAFFIC VOLUME

A.D.T. (2021) = 22,800
R.D.S. = 25/45 MPH

TOTAL ESTIMATED QUANTITIES

BID ITEM NO.	BID ITEMS	UNIT	S-40-669	S-40-3090	S-40-3091
531.2042.0001	DRILLING SHAFT (DIAMETER) 42"	LF	18		
531.2042.0002	DRILLING SHAFT (DIAMETER) 42"	LF		18	
531.2042.0003	DRILLING SHAFT (DIAMETER) 42"	LF			18
531.5130.0001	FOUNDATION SINGLE-SHAFT (TYPE) MC-III (S-40-669)	EA	1		
531.5130.0002	FOUNDATION SINGLE-SHAFT (TYPE) MC-III (S-40-3090)	EA		1	
531.5130.0003	FOUNDATION SINGLE-SHAFT (TYPE) MC-III (S-40-3091)	EA			1
532.5130.0001	MONOTUBE CANTILEVER (TYPE) MC-III S-40-669	EA	1		
532.5130.0002	MONOTUBE CANTILEVER (TYPE) MC-III S-40-3090	EA		1	
532.5130.0003	MONOTUBE CANTILEVER (TYPE) MC-III S-40-3091	EA			1

STRUCTURE DESIGN CONTACTS

BUREAU OF STRUCTURES:
AARON BONK (608) 261-0261

NO.	DATE	REVISION	BY

BUREAU OF STRUCTURES

ACCEPTED SDR 05/13/21
CHIEF STRUCTURES DESIGN ENGINEER DATE

OSS MONOTUBE AND 2-CHORD TRUSS PLANS

ENTER DESCRIPTION

COUNTY	
MILWAUKEE	VILLAGE OF BROWN DEER

DESIGN SPEC. AASHTO LRFDLTS-1 W/INTERIMS

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
BOS	BOS	TAH	XXX

GENERAL NOTES & DESIGN DATA

SHEET 1 OF 4

8

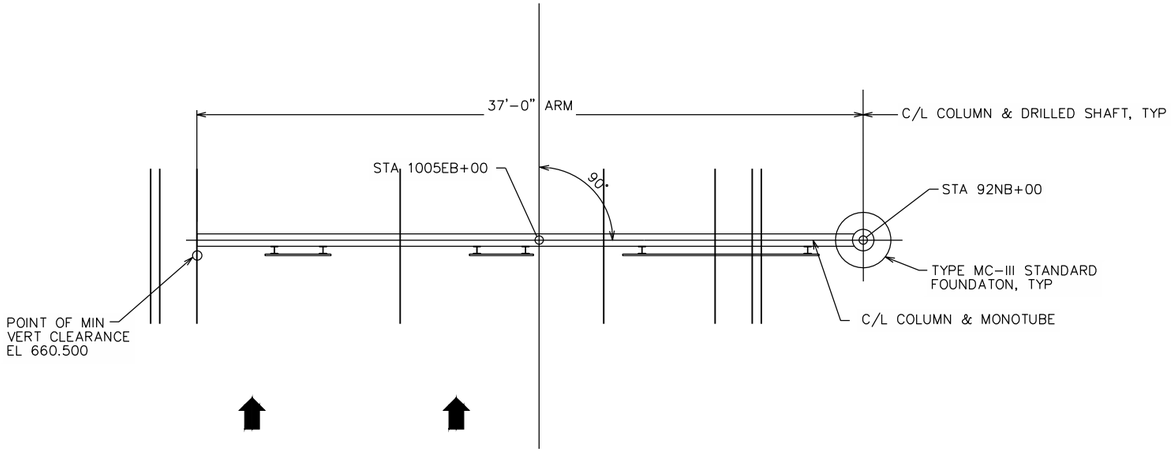
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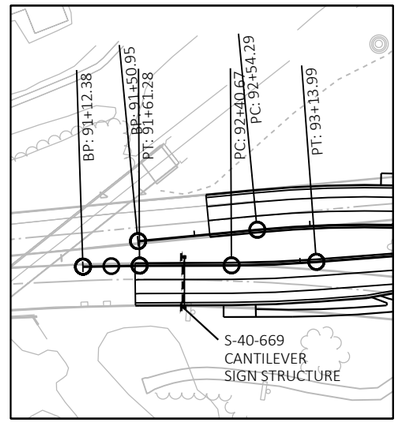
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STATE PROJECT NUMBER

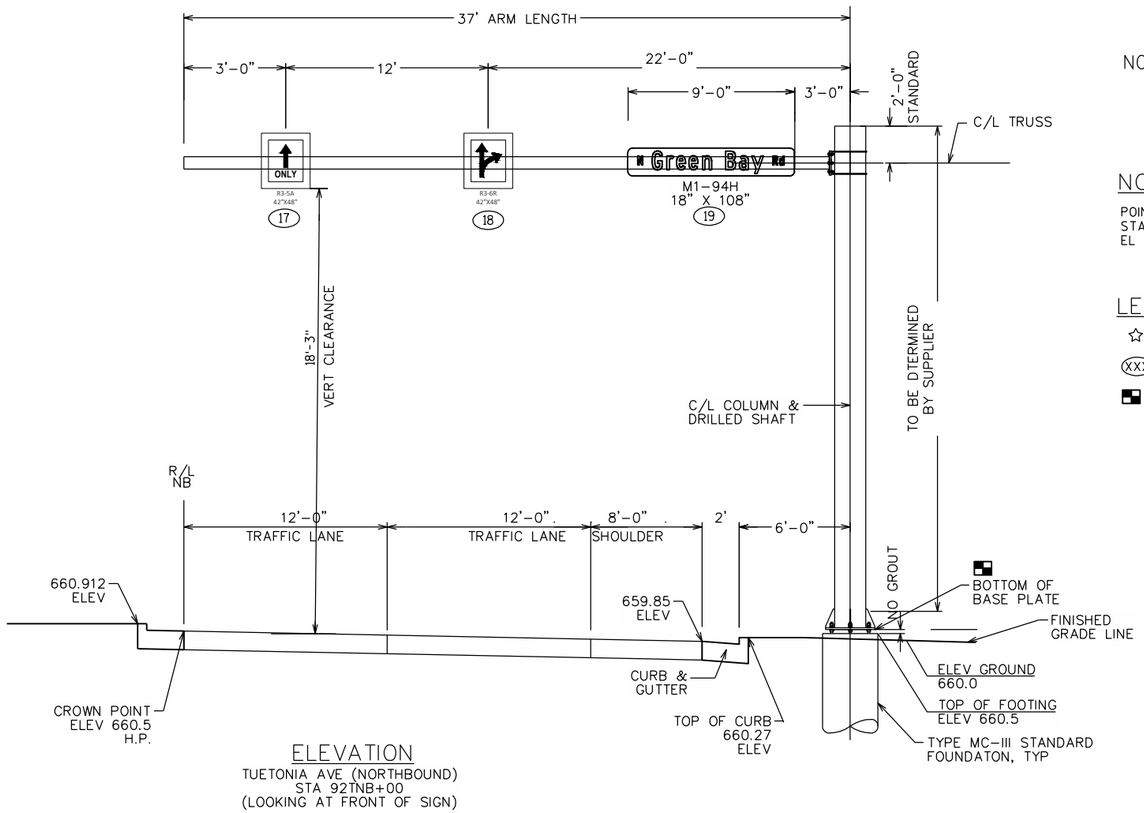
2565-07-70



PLAN



LOCATION MAP



ELEVATION

TUETONIA AVE (NORTHBOUND)
STA 92TNB+00
(LOOKING AT FRONT OF SIGN)

NOTE: TYPE II SIGNS WITH I-BEAMS INCIDENTAL

NOTE

POINT OF MIN VERTICAL CLEARANCE
STA 92TNB+00
EL 660.5

LEGEND

☆ ELEVATIONS GIVEN ALONG ℄ MONOTUBE

(XXX) SIGN NUMBERS (PERMANENT SIGNING PLAN)

■ STANDOFF DIMENSION IS ASSUMED TO BE 2½", BUT IS A MAXIMUM OF 2 X ANCHOR DIMENSION. SEE FOUNDATION DETAILS SHEET AND SHOP DRAWINGS FOR MORE INFORMATION.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

S-40-669

DRAWN BY: TAH | PLANS CK'D.: xxx

GENERAL LAYOUT
S40-669

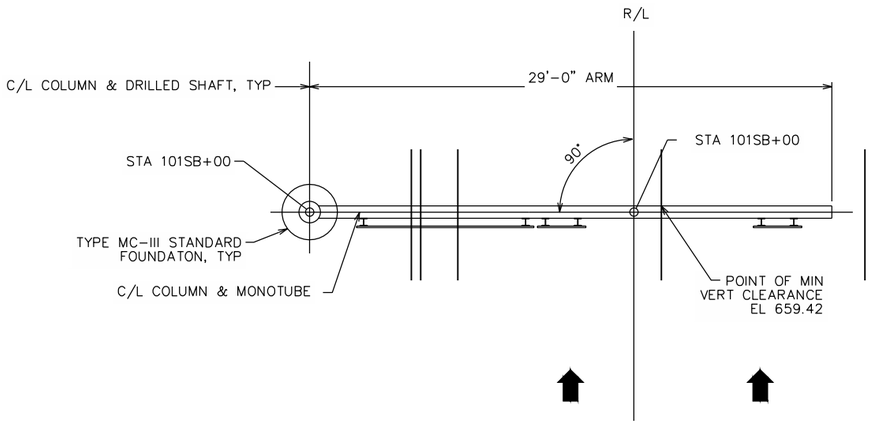
SHEET 2 OF 4

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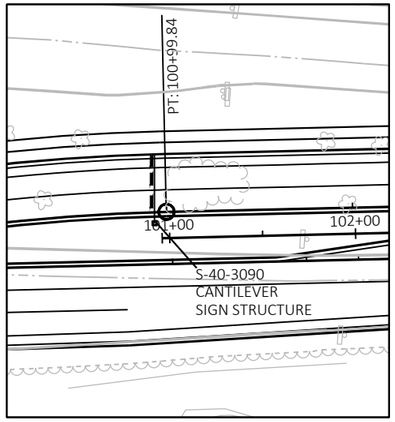
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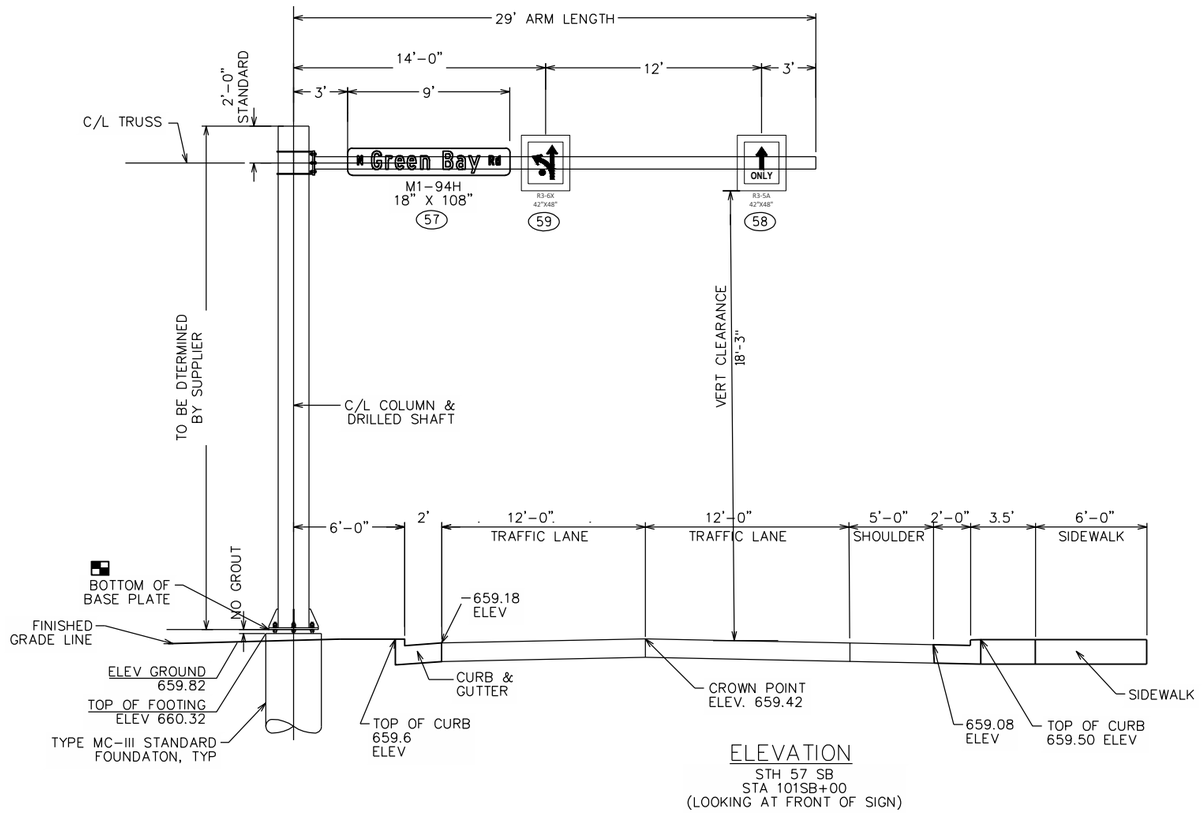
STATE PROJECT NUMBER
2565-07-70



PLAN



LOCATION MAP



ELEVATION
STH 57 SB
STA 101SB+00
(LOOKING AT FRONT OF SIGN)

NOTE: TYPE II SIGNS WITH I-BEAMS INCIDENTAL

NOTE

POINT OF MIN VERTICAL CLEARANCE
STA 101SB+00
EL 659.42

LEGEND

☆ ELEVATIONS GIVEN ALONG ℄ MONOTUBE

(XXX) SIGN NUMBERS (PERMANENT SIGNING PLAN)

STANDOFF DIMENSION IS ASSUMED TO BE 2½", BUT IS A MAXIMUM OF 2 X ANCHOR DIMENSION. SEE FOUNDATION DETAILS SHEET AND SHOP DRAWINGS FOR MORE INFORMATION.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

S-40-3090

DRAWN BY: TAH | PLANS CK'D.: xxx

GENERAL LAYOUT
S40-3090

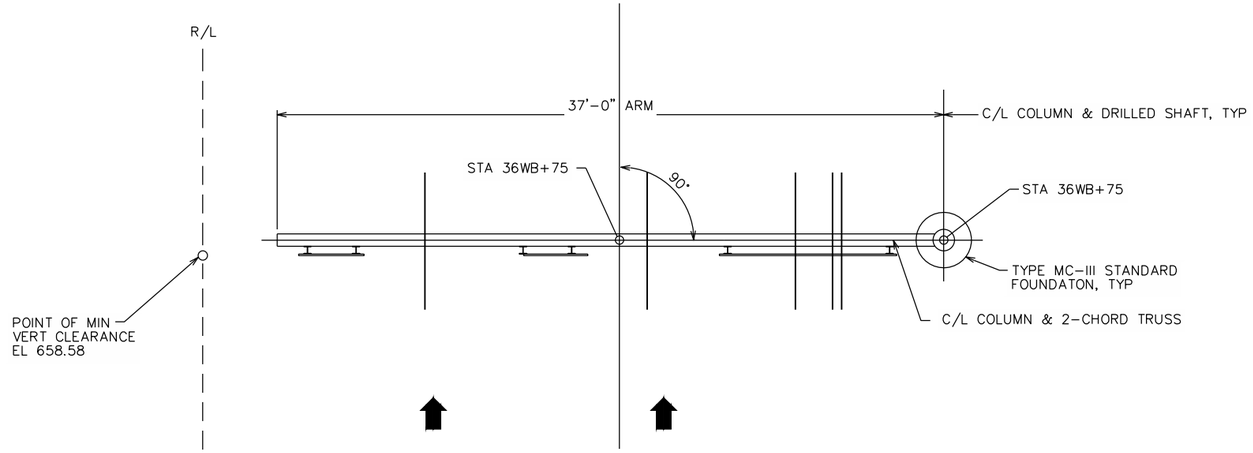
SHEET 3 OF 4

8

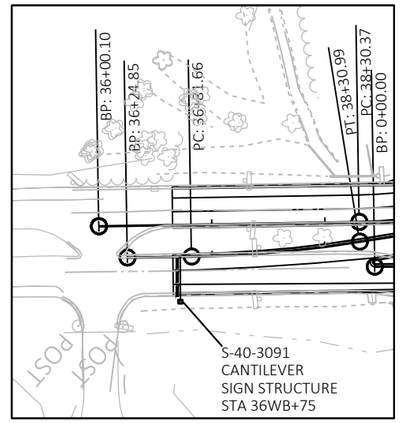
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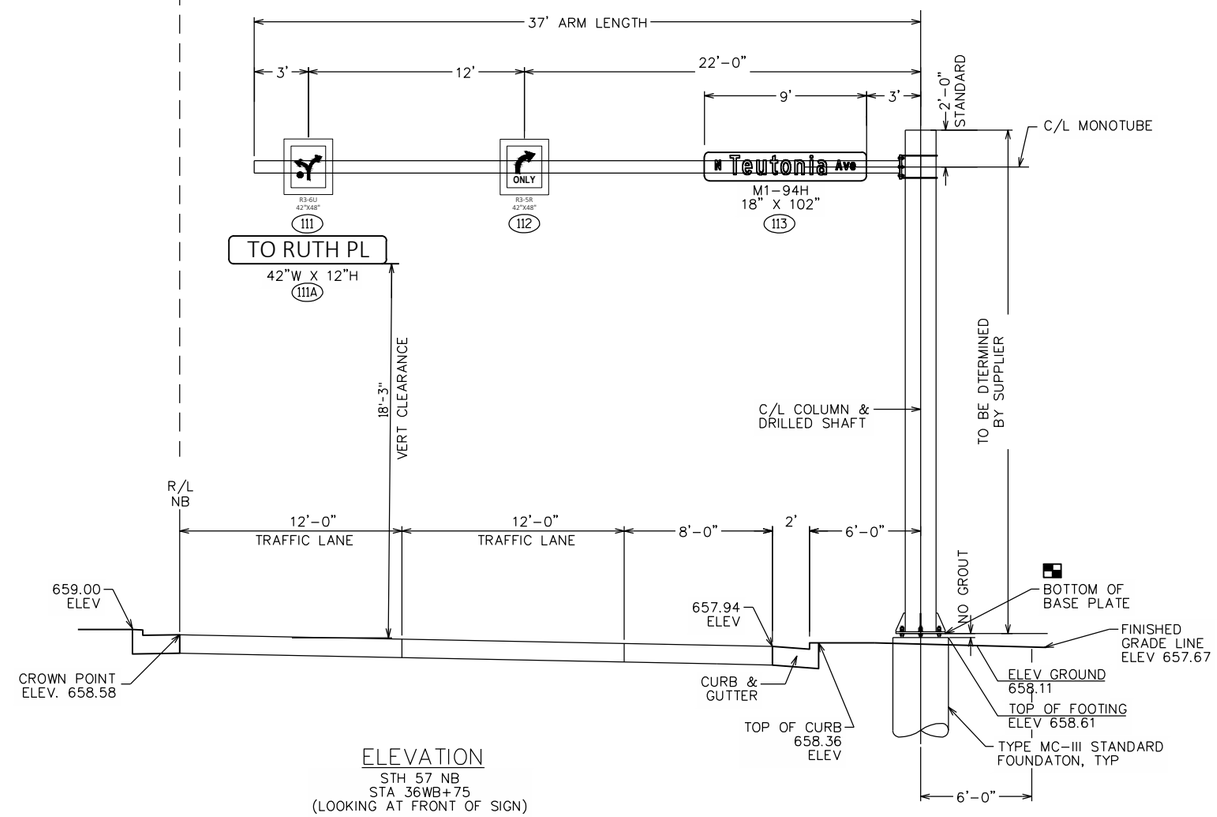
STATE PROJECT NUMBER
2565-07-70



PLAN



LOCATION MAP



ELEVATION
STH 57 NB
STA 36WB+75
(LOOKING AT FRONT OF SIGN)

NOTE: TYPE II SIGNS WITH I-BEAMS INCIDENTAL

NOTE

POINT OF MIN VERTICAL CLEARANCE
STA 36WB+75
EL 658.58

LEGEND

☆ ELEVATIONS GIVEN ALONG ℄ MONOTUBE

(XXX) SIGN NUMBERS (PERMANENT SIGNING PLAN)

STANDOFF DIMENSION IS ASSUMED TO BE 2½". BUT IS A MAXIMUM OF 2 X ANCHOR DIMENSION. SEE FOUNDATION DETAILS SHEET AND SHOP DRAWINGS FOR MORE INFORMATION.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

S-40-3091

DRAWN BY TAH | PLANS CK'D. xxx

GENERAL LAYOUT
S40-3091

SHEET 4 OF 4

8

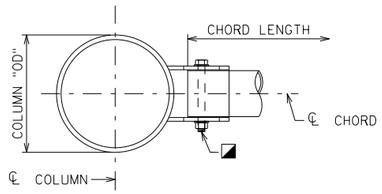
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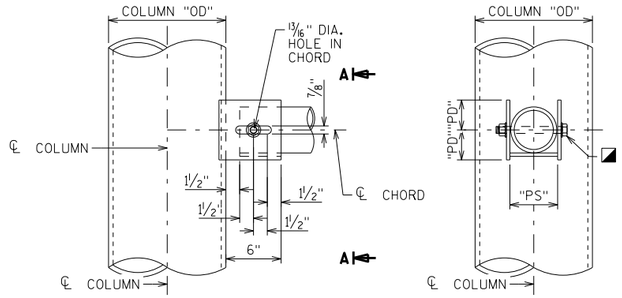
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STATE PROJECT NUMBER

STANDARD



PLAN



ELEVATION SECTION A-A

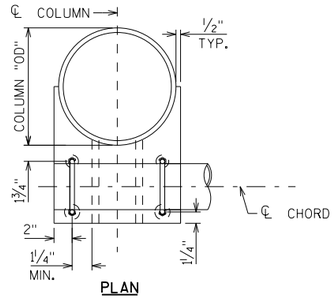
FULL SPAN SADDLE CONNECTION

PREFERRED

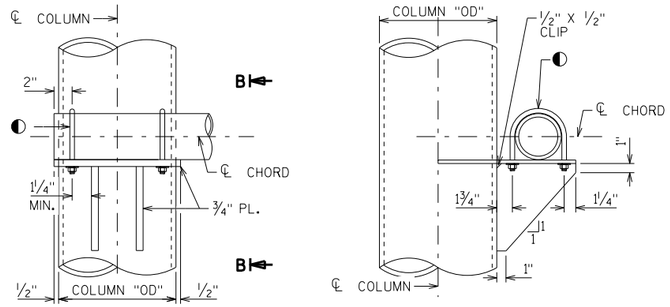
3/4" GALVANIZED A325 OR A449 HEAVY HEX BOLT, NUT, WASHER

"PD" = (CHORD "OD")/2 + 3/4"

"PS" = CHORD "OD" + 3/16"



PLAN

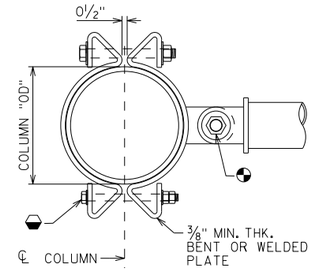


ELEVATION SECTION B-B

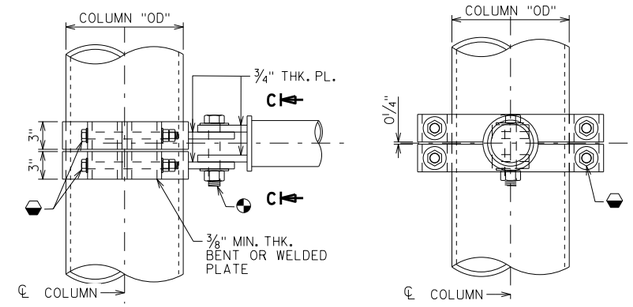
FULL SPAN STIFFENED BEARING CONNECTION

ALTERNATE 1

◐ (2) - 1/2" MIN. GALVANIZED U-BOLT, NUT, WASHER AND LOCK WASHER



PLAN



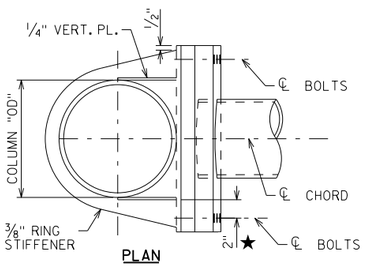
ELEVATION SECTION C-C

FULL SPAN CLAMP CONNECTION

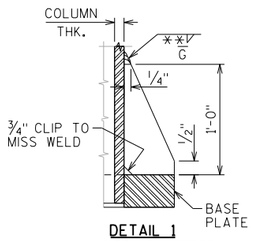
ALTERNATE 2 - TAPERED COLUMNS ONLY

1 1/4" GALVANIZED A325 HEAVY HEX BOLT, NUT AND WASHER

1" GALVANIZED A449 HEAVY HEX BOLT, NUT AND WASHER

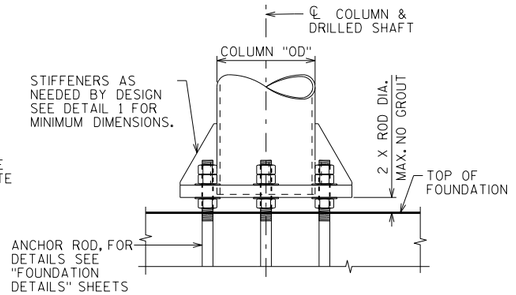


PLAN



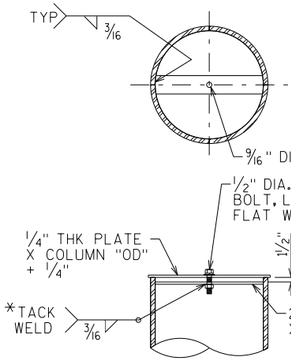
DETAIL 1

** SIZE AS NEEDED



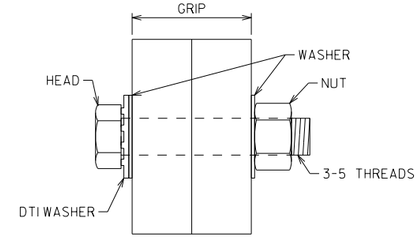
BASE PLATE & COLUMN DETAIL

LOOKING AT FRONT FACE OF STRUCTURE

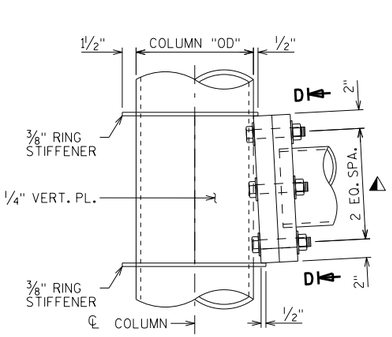


COLUMN/CHORD CAP DETAIL

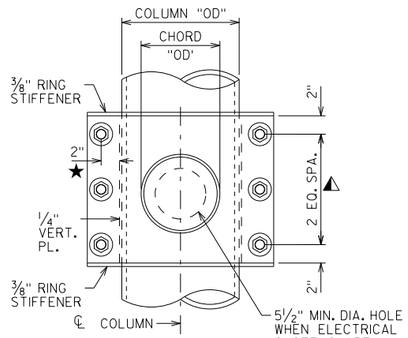
*PLACE TACK EVERY OTHER FLAT TO SECURE NUT OR USE 1/2" THICK AND TAP PLATE HOLE FOR BOLT THREADS



RECOMMENDED BOLT DETAIL WITH DTI



ELEVATION

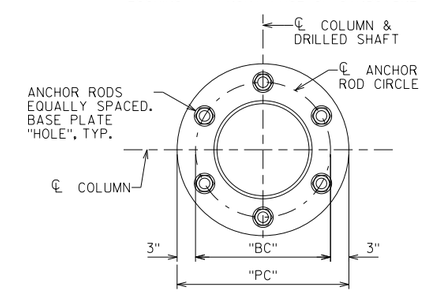


SECTION D-D

CANTILEVER POST TO CHORD CONNECTION

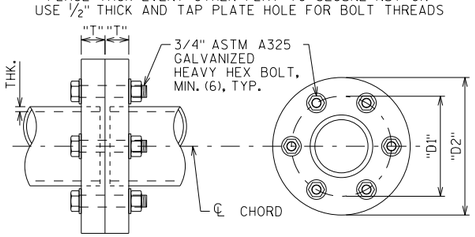
◭ MIN. CONNECTION = (6) - 1" GALVANIZED A325 BOLTS, NUT, WASHER AND DTI

★ MEASURED FROM EXT. FACE OF VERT. PLATE



BASE PLATE

PLAN



CHORD SPLICE DETAIL

"D1" = CHORD "OD" + 3"

"D2" = CHORD "OD" + 6"

"T" = BY DESIGN

NOTES:

MINIMUM VALUES SHOWN

ALL CONNETIONS ARE TO BE DESIGNED FOR ACTUAL STRUCTURE LOADS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

UPDATED: JULY 2020

DRAWN BY BOS | PLANS CK'D. BOS

MONOTUBE & 2-CHORD TRUSS DETAILS 1

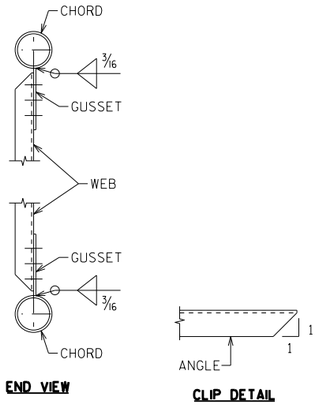
SHEET 1 OF 11

215

8

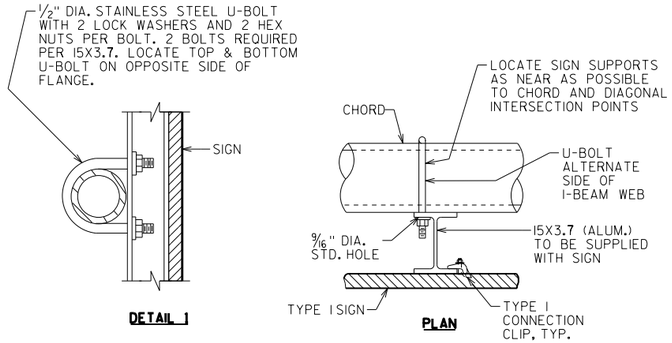
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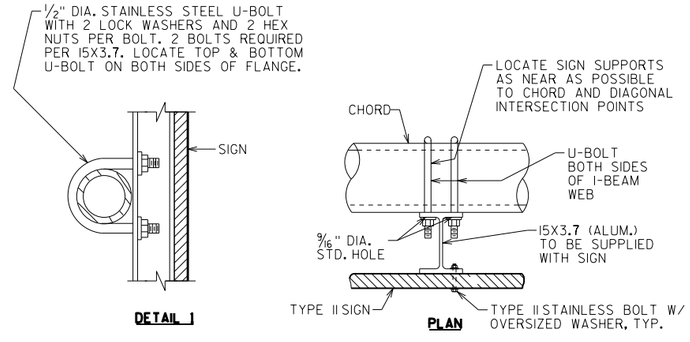
TRUSS CONNECTION DETAILS

BOLTED CONNECTIONS SHOWN, NUMBER OF BOLTS BY DESIGN
WELDED CONNECTIONS SIMILAR



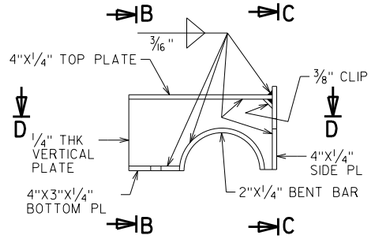
2-CHORD TRUSS SIGN CONNECTION

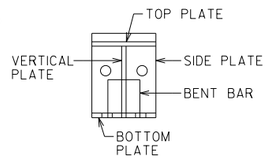
SEE SIGN PLATE MANUAL A4-7A FOR DETAILS

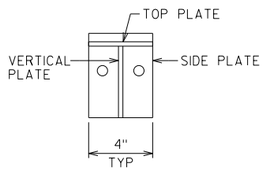


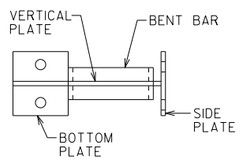
MONOTUBE SIGN CONNECTION

SEE SIGN PLATE MANUAL A4-7B FOR DETAILS



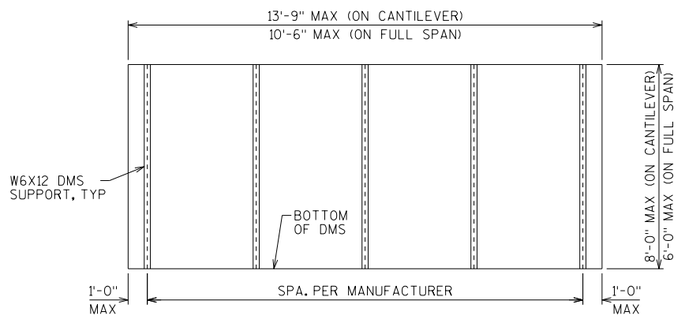






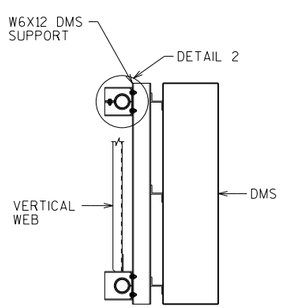
DMS WELDED PLATE CONNECTION DETAILS

TOP PLATE CLAMP SHOWN
BOTTOM PLATE CLAMP SIMILIAR



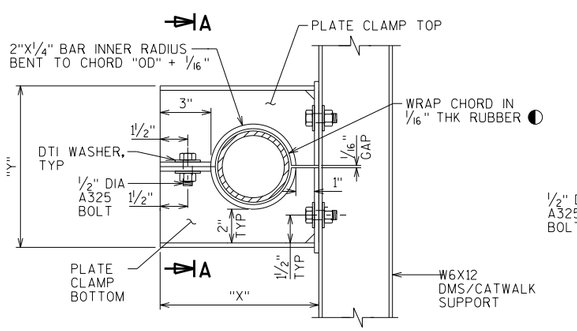
DMS MOUNTING POST SPACING DETAIL

POST SPACING MAY BE ADJUSTED AS REQUIRED IF CONFLICT WITH TRUSS IS ENCOUNTERED.

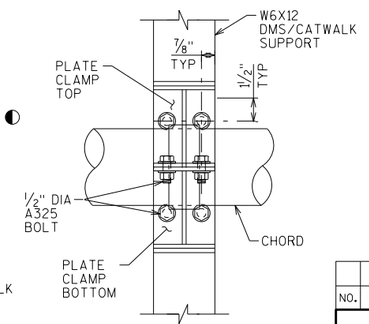


SECTION THRU TRUSS

FOR DMS CONNECTION

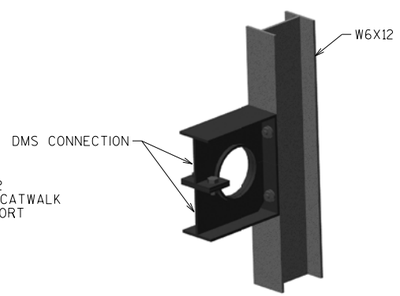


CHORD OUTER DIA	"X"	"Y"
"OD"	"OD"+4 13/16"	"OD"+5 1/16"



TYPICAL DMS CONNECTION

◐ NEOPRENE, GRADE 45±5, OTHERWISE MEETING THE REQUIREMENTS OF STD SPEC 506.2.6.1



3-D VIEW DMS CONNECTION

CHORD NOT SHOWN FOR CLARITY

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

UPDATED: JULY 2020

DRAWN BY: BOS | PLANS CK'D.: BOS

MONOTUBE & 2-CHORD TRUSS DETAILS 2

SHEET II OF III

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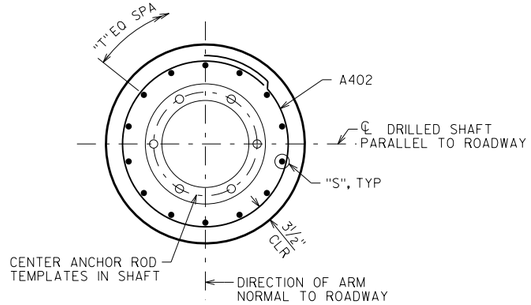
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STATE PROJECT NUMBER

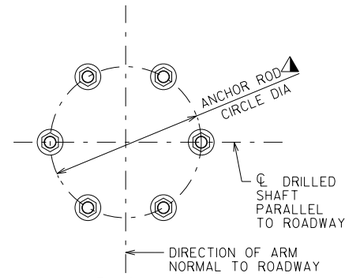
STANDARD

FOUNDATION & REINFORCING DATA

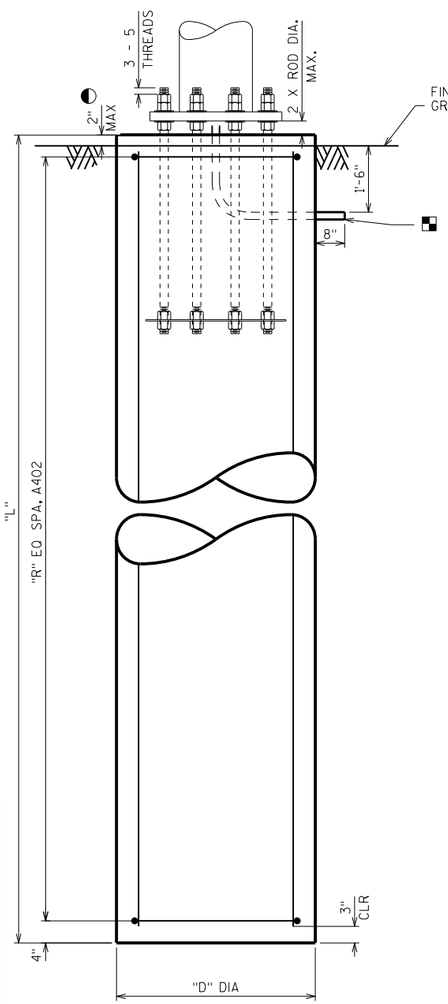
STANDARD FOUNDATION TYPE	SHAFT VARIABLES					
	"D"	"L"	"R"	"S"	"T"	"BC" MAX
MFI	2'-0"	12'-0"	12	A801	6	12"
MFII	2'-6"	13'-0"	13	A801	10	17"
MCI/MCII/TFI	2'-6"	17'-0"	17	A801	10	17"
TCI	3'-0"	18'-0"	18	A801	14	22"
TFII	3'-0"	20'-0"	20	A801	14	22"
MCIII/TCII/TFIII	3'-6"	18'-0"	18	A901	14	28"
MCIV/TFIV	3'-6"	23'-0"	23	A901	14	28"
TCIII	4'-0"	23'-0"	23	A1001	14	34"
TCIV	4'-0"	28'-0"	28	A1001	14	34"



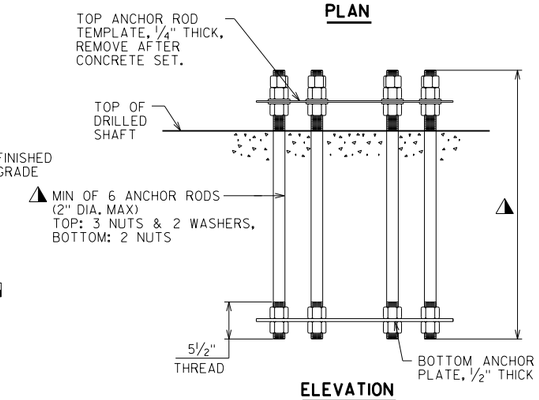
PLAN



PLAN



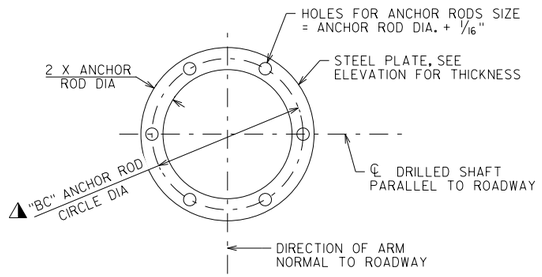
ELEVATION



ELEVATION

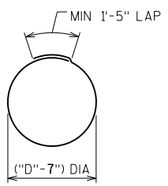
ANCHOR ROD ASSEMBLY DETAILS

△ ANCHOR ROD NUMBER, DIAMETER, LENGTH & ORIENTATION AS SHOWN ON FABRICATION DRAWING.



ANCHOR PLATE/TOP TEMPLATE

PLAN



A402

NOTE:
THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

BILL OF BARS - STANDARD FOUNDATIONS

STANDARD FOUNDATION MFI

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A801		6	11'-7"			DRILLED SHAFT - VERTICAL
A402		13	5'-10"	X		DRILLED SHAFT - HORIZONTAL

STANDARD FOUNDATION MFII

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A801		10	12'-7"			DRILLED SHAFT - VERTICAL
A402		14	7'-5"	X		DRILLED SHAFT - HORIZONTAL

STANDARD FOUNDATION MCI/MCII/TFI

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A801		10	16'-7"			DRILLED SHAFT - VERTICAL
A402		18	7'-5"	X		DRILLED SHAFT - HORIZONTAL

STANDARD FOUNDATION TCI

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A801		14	17'-7"			DRILLED SHAFT - VERTICAL
A402		19	9'-0"	X		DRILLED SHAFT - HORIZONTAL

STANDARD FOUNDATION TFII

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A801		14	19'-7"			DRILLED SHAFT - VERTICAL
A402		21	9'-0"	X		DRILLED SHAFT - HORIZONTAL

STANDARD FOUNDATION MCIII/TCII/TFIII

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A901		14	17'-7"			DRILLED SHAFT - VERTICAL
A402		19	10'-6"	X		DRILLED SHAFT - HORIZONTAL

STANDARD FOUNDATION MCIV/TFIV

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A901		14	22'-7"			DRILLED SHAFT - VERTICAL
A402		24	10'-6"	X		DRILLED SHAFT - HORIZONTAL

STANDARD FOUNDATION TCIII

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A1001		14	22'-7"			DRILLED SHAFT - VERTICAL
A402		24	12'-2"	X		DRILLED SHAFT - HORIZONTAL

STANDARD FOUNDATION TCIV

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A1001		14	27'-7"			DRILLED SHAFT - VERTICAL
A402		29	12'-2"	X		DRILLED SHAFT - HORIZONTAL

ESTIMATED QUANTITIES - FOUNDATIONS

STANDARD FOUNDATION TYPE	CONCRETE MASONRY (CY)	STEEL REINFORCEMENT HS (LBS)	FOUNDATION DRILLING (LF)				
			24" DIA.	30" DIA.	36" DIA.	42" DIA.	48" DIA.
MFI	2	240	12				
MFII	3	410		13			
MCI/MCII/TFI	4	540		17			
TCI	5	780			18		
TFII	6	860			20		
MCIII/TCII/TFIII	7	970				18	
MCIV/TFIV	9	1,250				23	
TCIII	11	1,560					23
TCIV	13	1,900					28

** QUANTITIES ARE FOR INFORMATION ONLY AND ARE BASED ON STANDARD STRUCTURE DIMENSIONS

NOTES

CENTER ANCHOR ROD ASSEMBLY ON DRILLED SHAFT AND MAKE SURE IT IS PLUMB. MAINTAIN ANCHOR ROD PROJECTION ABOVE FOOTING AS DETAILED. ANCHOR ROD ASSEMBLY SHALL BE RIGIDLY SECURED IN POSITION DURING AND AFTER CONCRETE PLACEMENT. DO NOT WELD THE ANCHOR RODS.

◐ FOR OVERHEAD SIGN STRUCTURES THAT ARE INSTALLED ADJACENT TO SIDEWALKS, THE TOP OF THE SHAFT SHALL BE POURED FLUSH WITH THE FINISHED GRADE.

◪ 2" DIA NONMETALLIC CONDUITS, INSTALL ONLY WITH DMS. EXTEND CONDUITS AS SHOWN AND CAP OR SEAL EACH END WITH A SUITABLE REMOVABLE PLUG. PLACE CONDUITS UNDER COLUMN ADJACENT TO THE DMS. CONDUITS INCIDENTAL TO THE FOUNDATION BID ITEMS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

UPDATED: JULY 2020

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MONOTUBE & 2-CHORD TRUSS FOUNDATIONS

SHEET III OF III

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SCALE = 1.67

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NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
4 - MASS ORDINATE	THE MASS ORDINATE + OR - QTY CALCULATED FOR THE SEGMENT. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE SEGMENT. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE SEGMENT.

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CENTER

STATION	REAL STATION	DISTANCE	AREA (SF) CUT	AREA (SF) SALVAGED/UNUSABLE PAVEMENT MATERIAL	AREA (SF) FILL	INCREMENTAL VOL (CY) (UNADJUSTED) CUT NOTE 1	INCREMENTAL VOL (CY) (UNADJUSTED) SALVAGED/UNUSABLE PAVEMENT MATERIAL NOTE 2	INCREMENTAL VOL (CY) (UNADJUSTED) FILL NOTE 3	CUMULATIVE VOL (CY) CUT 1.00 NOTE 1	CUMULATIVE VOL (CY) EXPANDED FILL 1.30	CUMULATIVE VOL (CY) MASS ORDINATE NOTE 4
00+00	0.00	0.00	92.52	0.00	10.21	0	0	0	0	0	0
00+50	50.00	50.00	85.36	0.00	40.35	165	0	47	165	61	104
01+00	100.00	50.00	93.97	0.00	97.54	166	0	128	331	227	104
01+50	150.00	50.00	138.83	0.00	138.68	216	0	219	546	511	35
02+00	200.00	50.00	148.12	0.00	13.57	266	0	141	812	694	118
				TOTALS		812	0	534			

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EAST LEG

STATION	REAL STATION	DISTANCE	AREA (SF) CUT	AREA (SF) SALVAGED/UNUSABLE PAVEMENT MATERIAL	AREA (SF) FILL	INCREMENTAL VOL (CY) (UNADJUSTED) CUT NOTE 1	INCREMENTAL VOL (CY) (UNADJUSTED) SALVAGED/UNUSABLE PAVEMENT MATERIAL NOTE 2	INCREMENTAL VOL (CY) (UNADJUSTED) FILL NOTE 3	CUMULATIVE VOL (CY) EXPANDED CUT 1.00 NOTE 1	CUMULATIVE VOL (CY) EXPANDED FILL 1.30	CUMULATIVE VOL (CY) MASS ORDINATE NOTE 4
36+65.52	3665.52	0.00	192.58	0.00	6.27	0	0	0	0	0	0
37+00	3700.00	34.48	175.41	0.00	4.83	235	0	7	235	9	226
37+50	3750.00	50.00	189.19	0.00	2.04	338	0	6	573	17	555
38+00	3800.00	50.00	189.70	0.00	2.11	351	0	4	923	22	901
38+50	3850.00	50.00	141.84	0.00	3.26	307	0	5	1,230	29	1,201
39+00	3900.00	50.00	113.01	0.00	18.78	236	0	20	1,466	55	1,411
39+50	3950.00	50.00	149.08	0.00	159.63	243	0	165	1,709	270	1,439
40+00	4000.00	50.00	146.76	0.00	60.85	274	0	204	1,983	536	1,447
				TOTALS		1,983	0	412			

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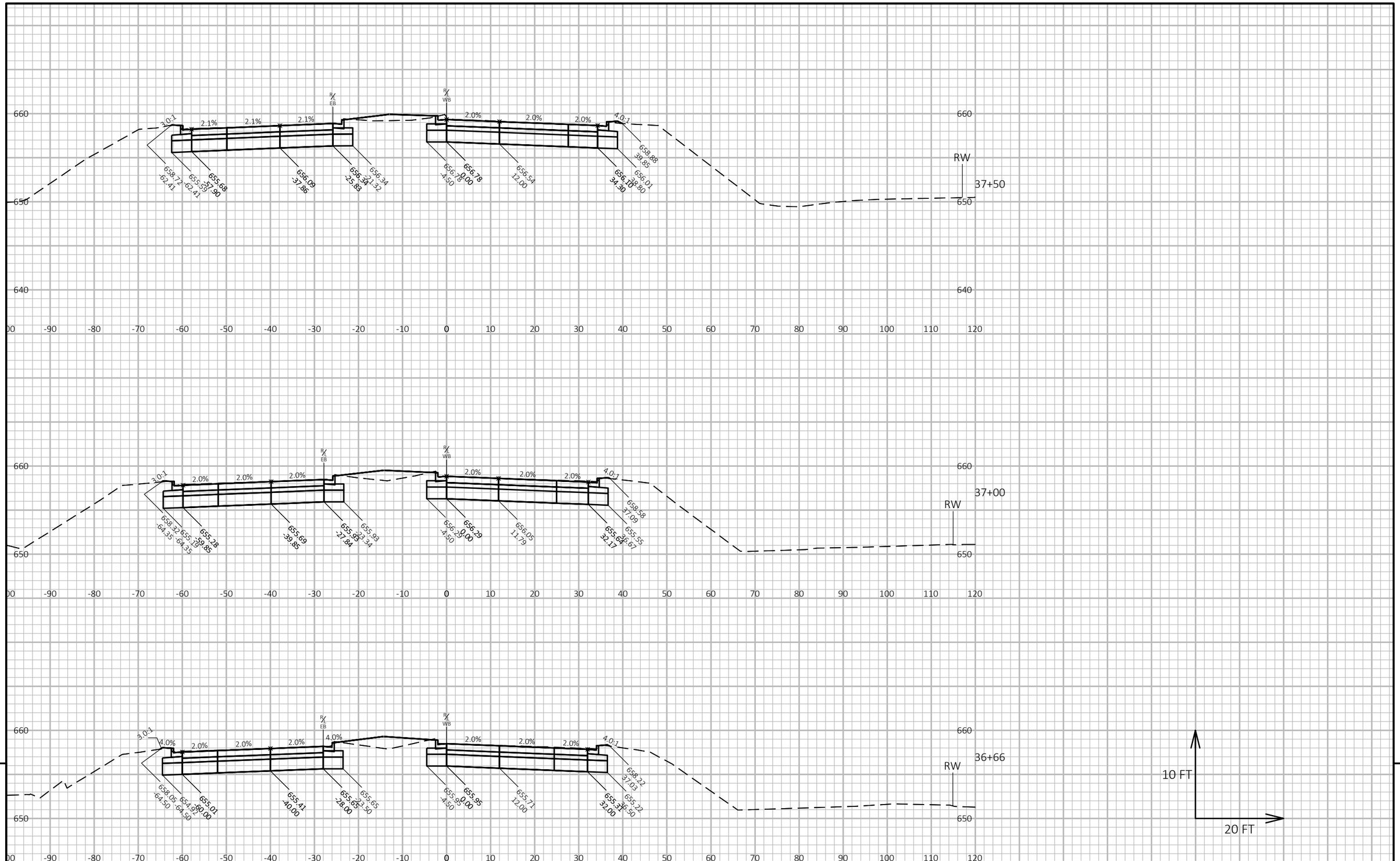
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NORTH LEG

STATION	REAL STATION	DISTANCE	AREA (SF) CUT	AREA (SF) SALVAGED/UNUSABLE PAVEMENT MATERIAL	AREA (SF) FILL	INCREMENTAL VOL (CY) (UNADJUSTED) CUT NOTE 1	INCREMENTAL VOL (CY) (UNADJUSTED) SALVAGED/UNUSABLE PAVEMENT MATERIAL NOTE 2	INCREMENTAL VOL (CY) (UNADJUSTED) FILL NOTE 3	CUMULATIVE VOL (CY) EXPANDED CUT 1.00 NOTE 1	CUMULATIVE VOL (CY) EXPANDED FILL 1.30	CUMULATIVE VOL (CY) MASS ORDINATE NOTE 4
97+16.41	9716.41	0.00	289.84	0.00	45.27	0	0	0	0	0	0
97+50	9750.00	33.59	166.48	0.00	76.44	284	0	76	284	98	185
98+00	9800.00	50.00	186.81	0.00	131.17	327	0	192	611	348	263
98+50	9850.00	50.00	182.23	0.00	91.90	342	0	207	953	617	336
99+00	9900.00	50.00	185.39	0.00	37.54	340	0	120	1,293	773	520
99+50	9950.00	50.00	171.52	0.00	22.49	330	0	56	1,624	845	779
100+00	10000.00	50.00	183.78	0.00	8.20	329	0	28	1,953	882	1,071
100+50	10050.00	50.00	191.00	0.00	3.13	347	0	10	2,300	895	1,404
101+00	10100.00	50.00	199.41	0.00	1.87	361	0	5	2,661	901	1,760
101+50	10150.00	50.00	196.17	0.00	3.43	366	0	5	3,027	908	2,119
102+00	10200.00	50.00	238.42	0.00	0.00	402	0	3	3,430	912	2,518
102+50	10250.00	50.00	233.02	0.00	0.19	437	0	0	3,866	912	2,954
103+00	10300.00	50.00	272.97	0.00	0.67	469	0	1	4,335	913	3,421
103+50	10350.00	50.00	278.29	0.00	0.00	510	0	1	4,845	914	3,931
103+99.36	10399.36	49.36	252.04	0.00	0.23	485	0	0	5,330	914	4,416
				TOTALS		5,330	0	703			

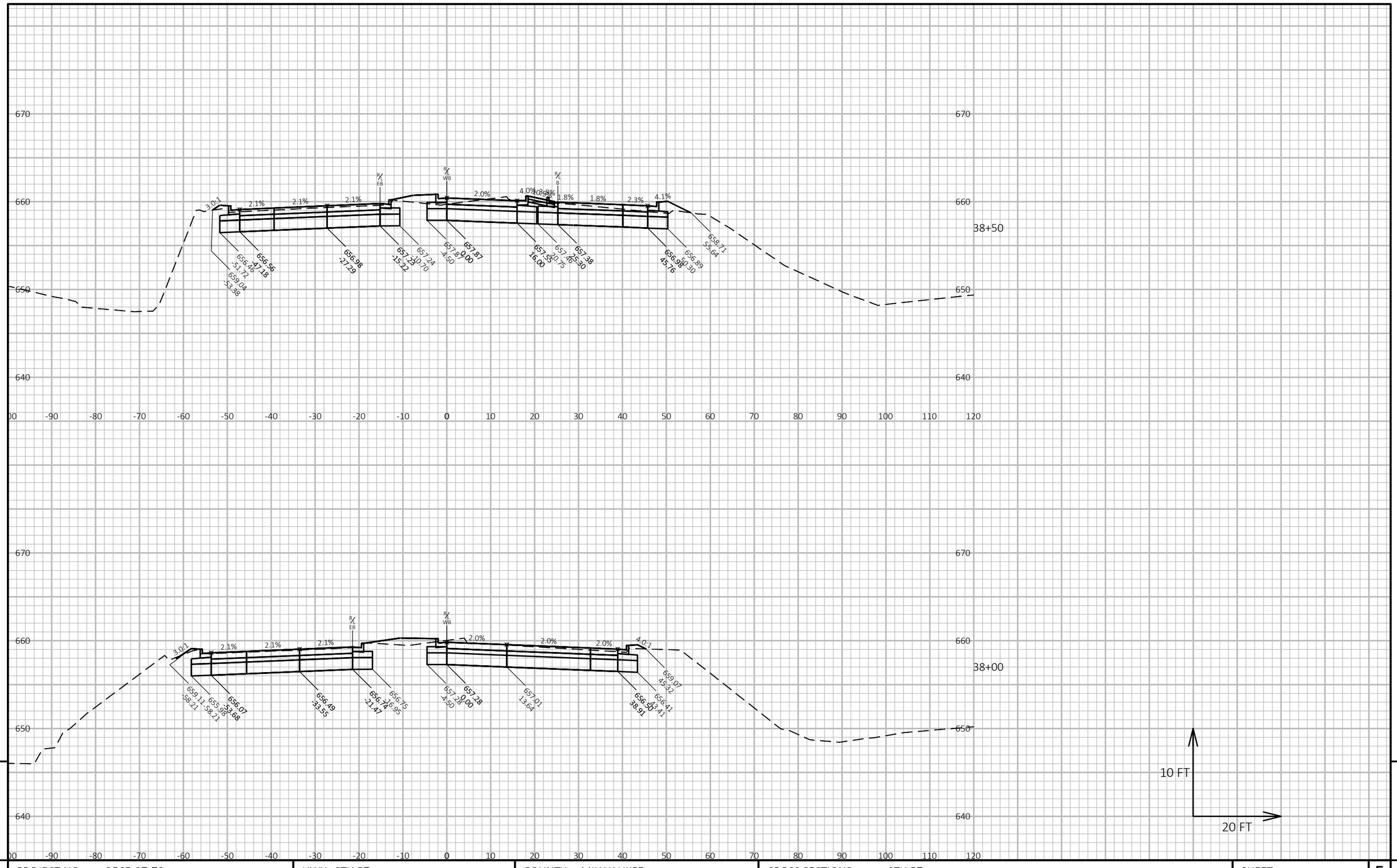
SOUTH LEG

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	EXPANDED CUT 1.00 NOTE 1	EXPANDED FILL 1.30	MASS ORDINATE NOTE 4
						NOTE 1	NOTE 2	NOTE 3			
91+57.53	9157.53	0.00	88.43	0.00	0.00	0	0	0	0	0	0
92+00	9200.00	42.47	118.44	0.00	0.05	163	0	0	163	0	163
92+23.67	9223.67	23.67	172.16	0.00	3.03	127	0	1	290	2	288
92+50	9250.00	26.33	170.41	0.00	7.64	167	0	5	457	9	449
93+00	9300.00	50.00	179.44	0.00	17.95	324	0	24	781	39	742
93+50	9350.00	50.00	166.97	0.00	43.21	321	0	57	1,102	113	989
94+00	9400.00	50.00	128.14	0.00	176.21	273	0	203	1,375	377	998
94+50	9450.00	50.00	75.97	0.00	285.08	189	0	427	1,564	932	632
95+00	9500.00	50.00	50.62	0.00	340.31	117	0	579	1,681	1,685	-4
				TOTALS		1,681	0	1,296			



PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 57	SHEET 223 E

FILE NAME : L:\DESIGN PROJECTS\2565-07-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090201
PLOT DATE : 4/19/2021 10:19 AM PLOT BY : REBECCA JONARDI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49



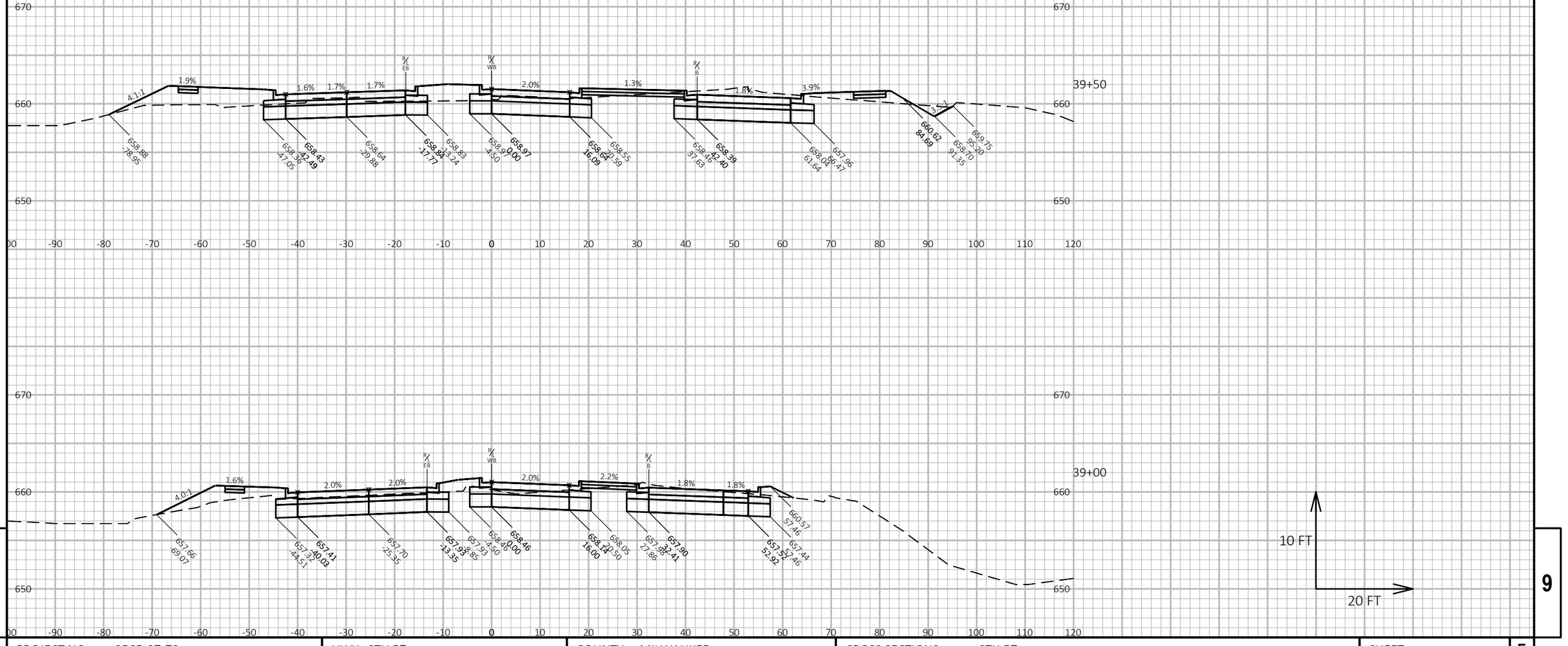
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PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 57	SHEET 224	E

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LAYOUT NAME - 090202

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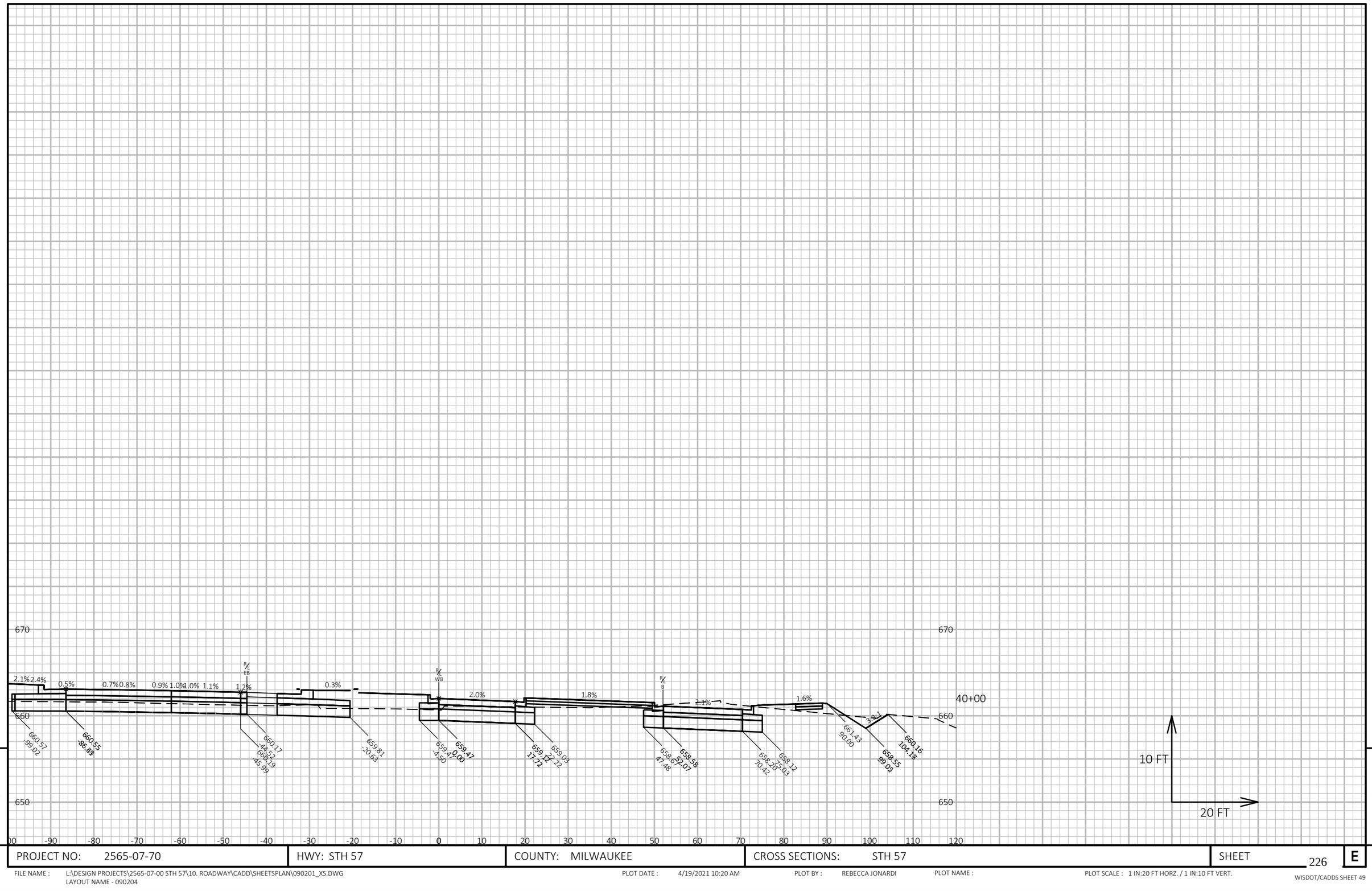
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PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 57	SHEET 225	E

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LAYOUT NAME - 090203

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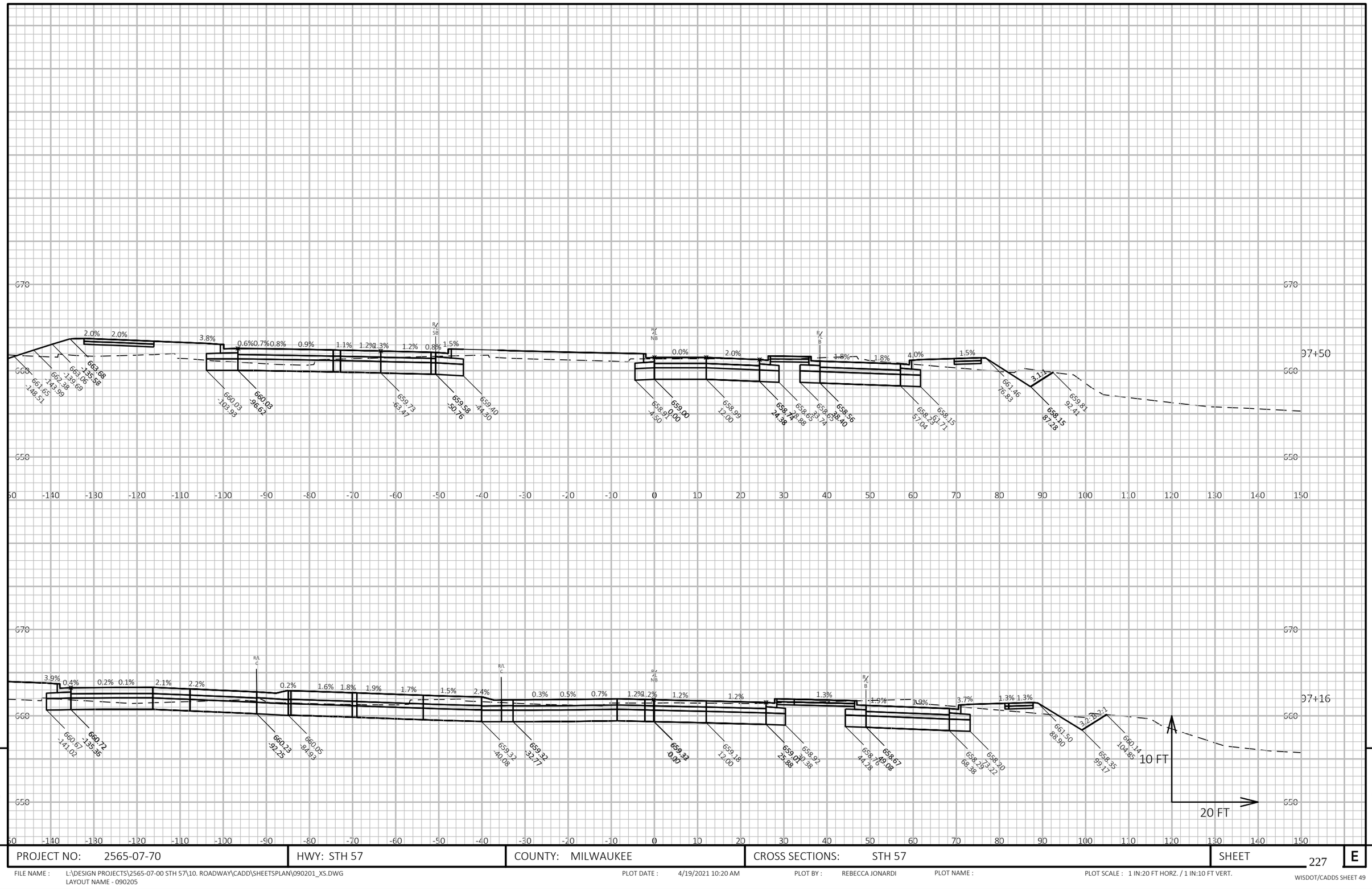
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PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 57	SHEET 226	E

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LAYOUT NAME - 090204

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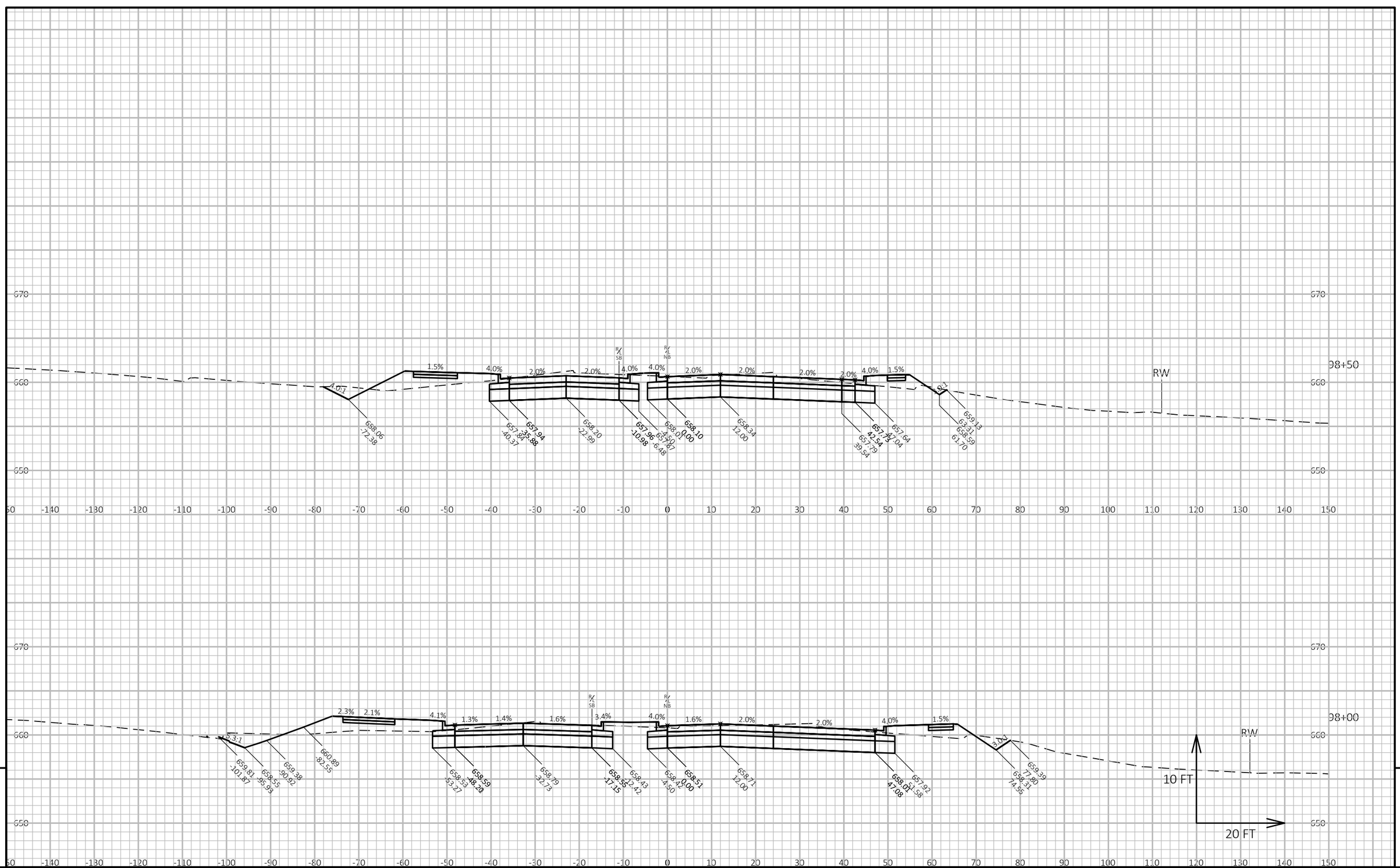
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PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 57	SHEET 227	E

FILE NAME : L:\DESIGN PROJECTS\2565-07-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090205

PLOT DATE : 4/19/2021 10:20 AM PLOT BY : REBECCA JONARDI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

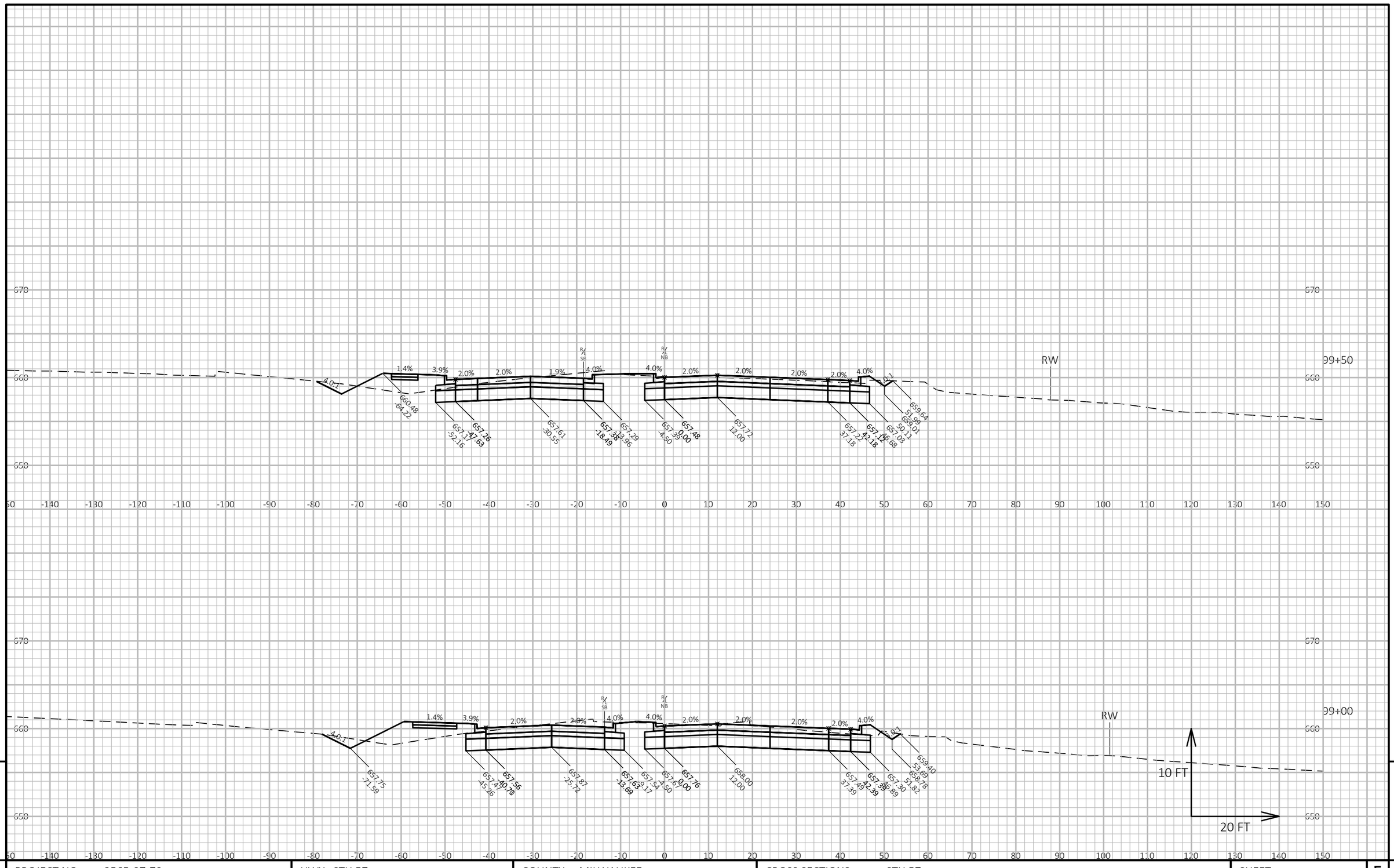


PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 57	SHEET 228 E

FILE NAME : L:\DESIGN PROJECTS\2565-07-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090206

PLOT DATE : 4/19/2021 10:20 AM PLOT BY : REBECCA JONARDI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

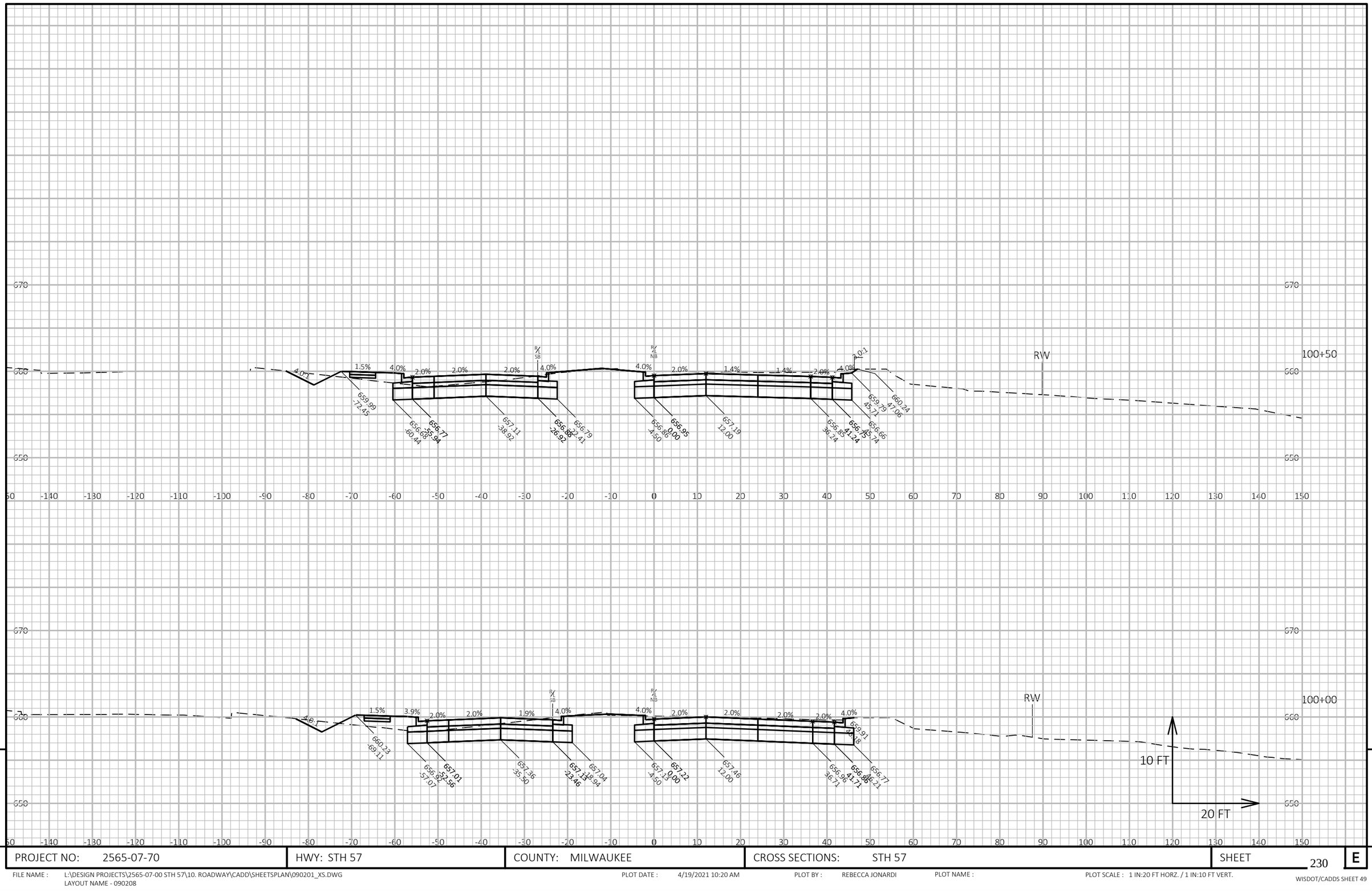
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PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 57	SHEET 229	E

FILE NAME : L:\DESIGN PROJECTS\2565-07-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090207

PLOT DATE : 4/19/2021 10:20 AM PLOT BY : REBECCA JONARDI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

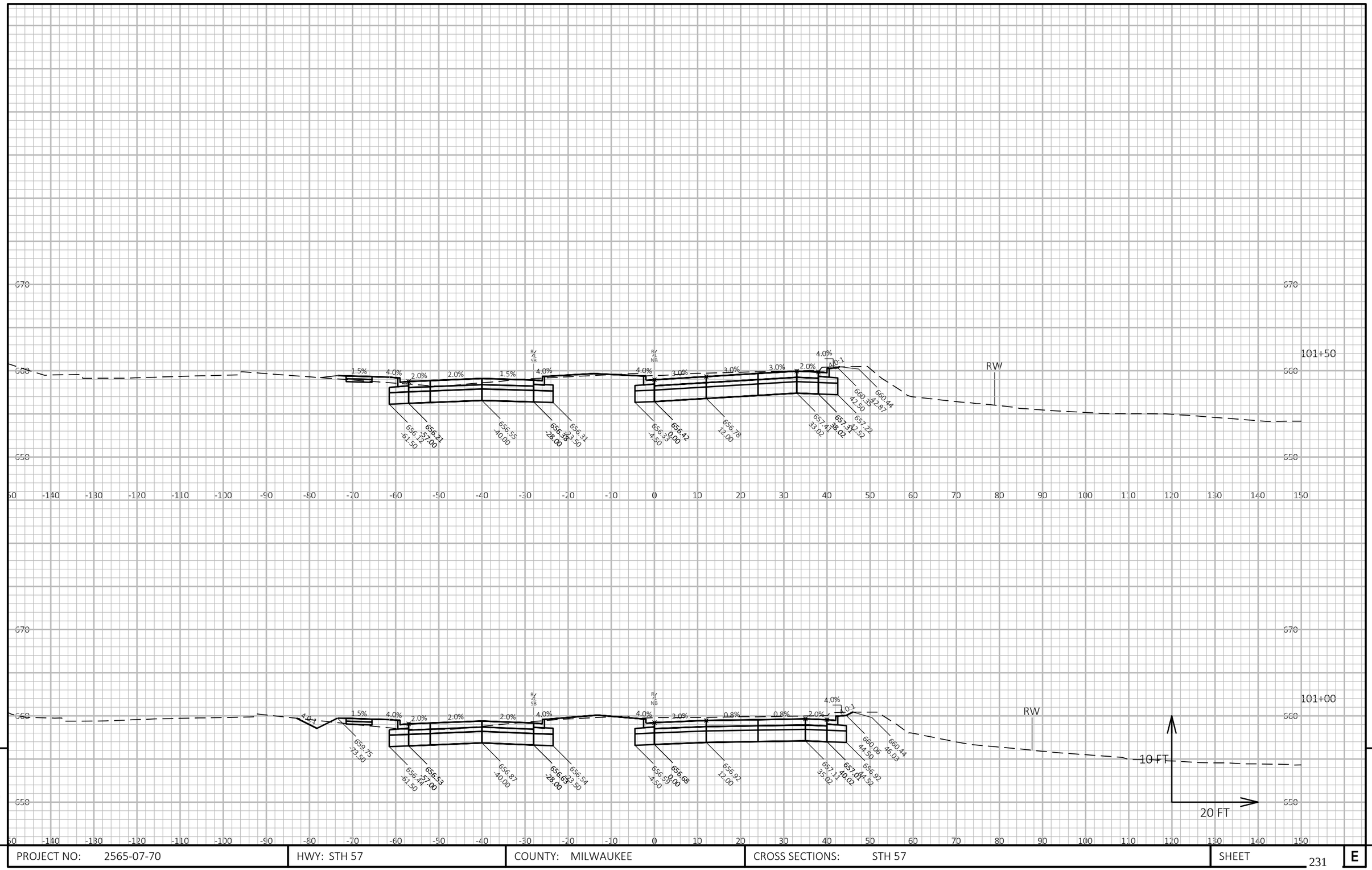


PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 57	SHEET 230 E

FILE NAME : L:\DESIGN PROJECTS\2565-07-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090208

PLOT DATE : 4/19/2021 10:20 AM PLOT BY : REBECCA JONARDI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

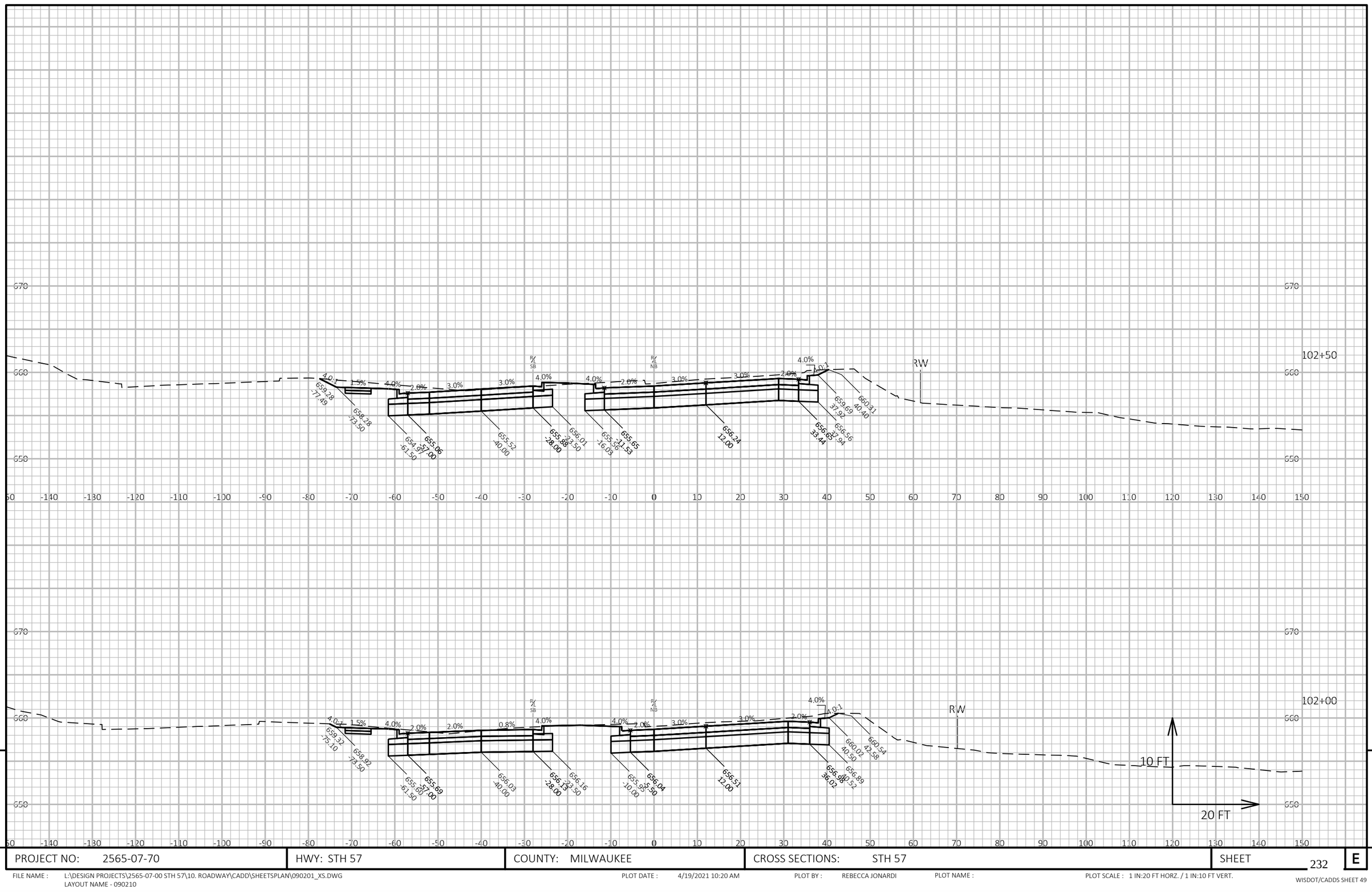
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PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 57	SHEET 231	E

FILE NAME : L:\DESIGN PROJECTS\2565-07-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090209

PLOT DATE : 4/19/2021 10:20 AM PLOT BY : REBECCA JONARDI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

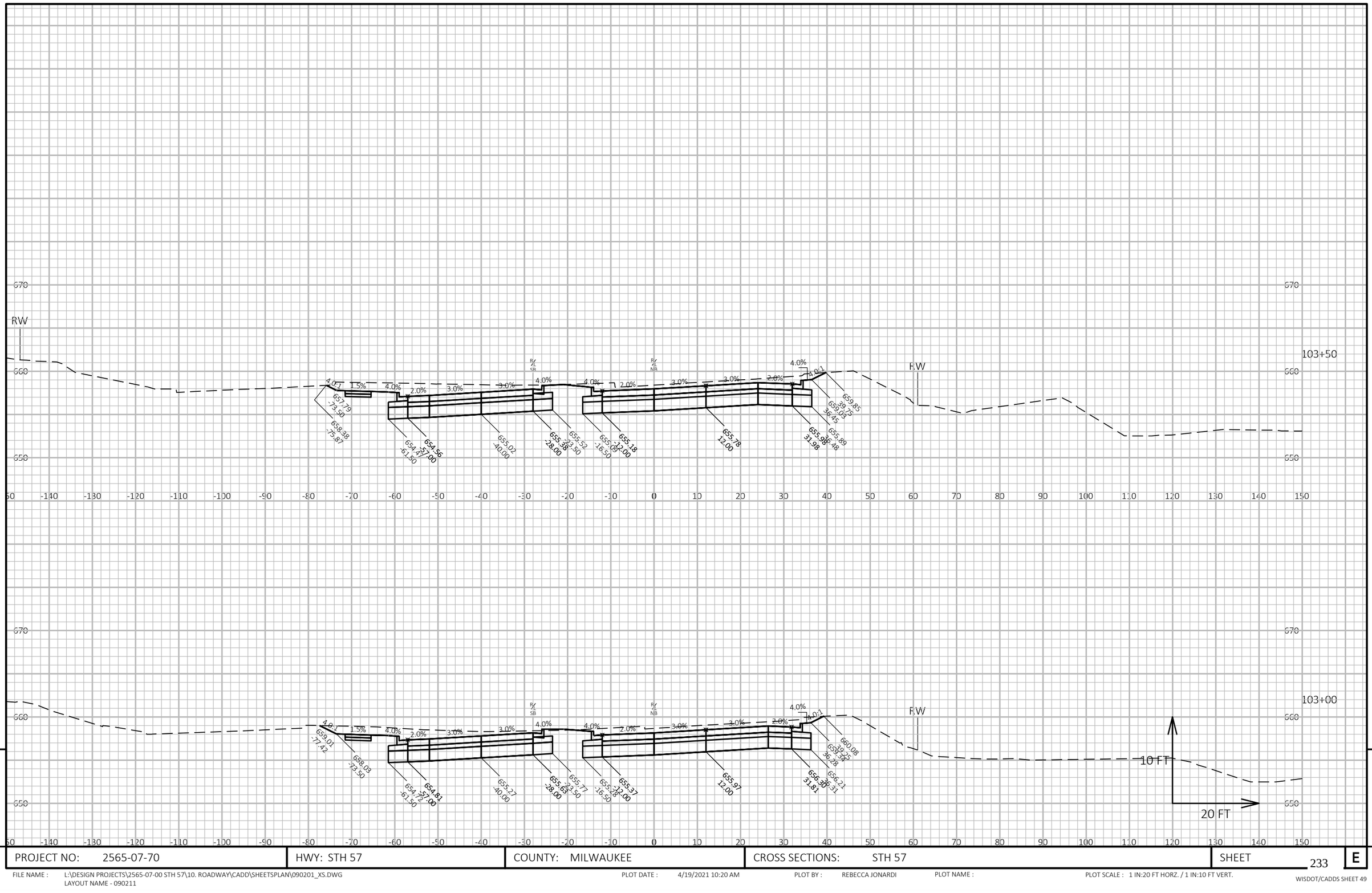


PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 57	SHEET 232	E

FILE NAME : L:\DESIGN PROJECTS\2565-07-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090210

PLOT DATE : 4/19/2021 10:20 AM PLOT BY : REBECCA JONARDI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

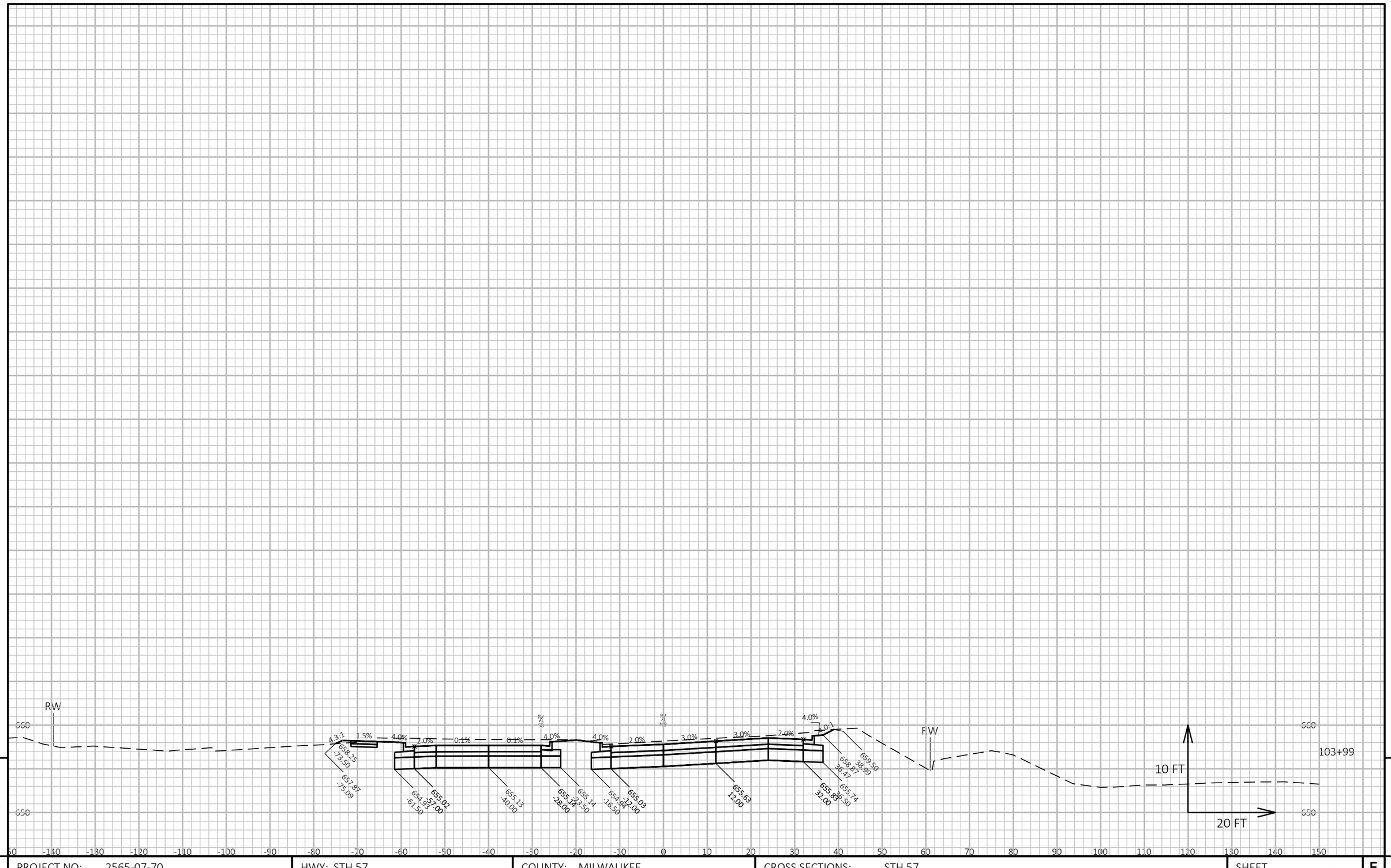


PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 57	SHEET 233	E

FILE NAME : L:\DESIGN PROJECTS\2565-07-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090211

PLOT DATE : 4/19/2021 10:20 AM PLOT BY : REBECCA JONARDI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

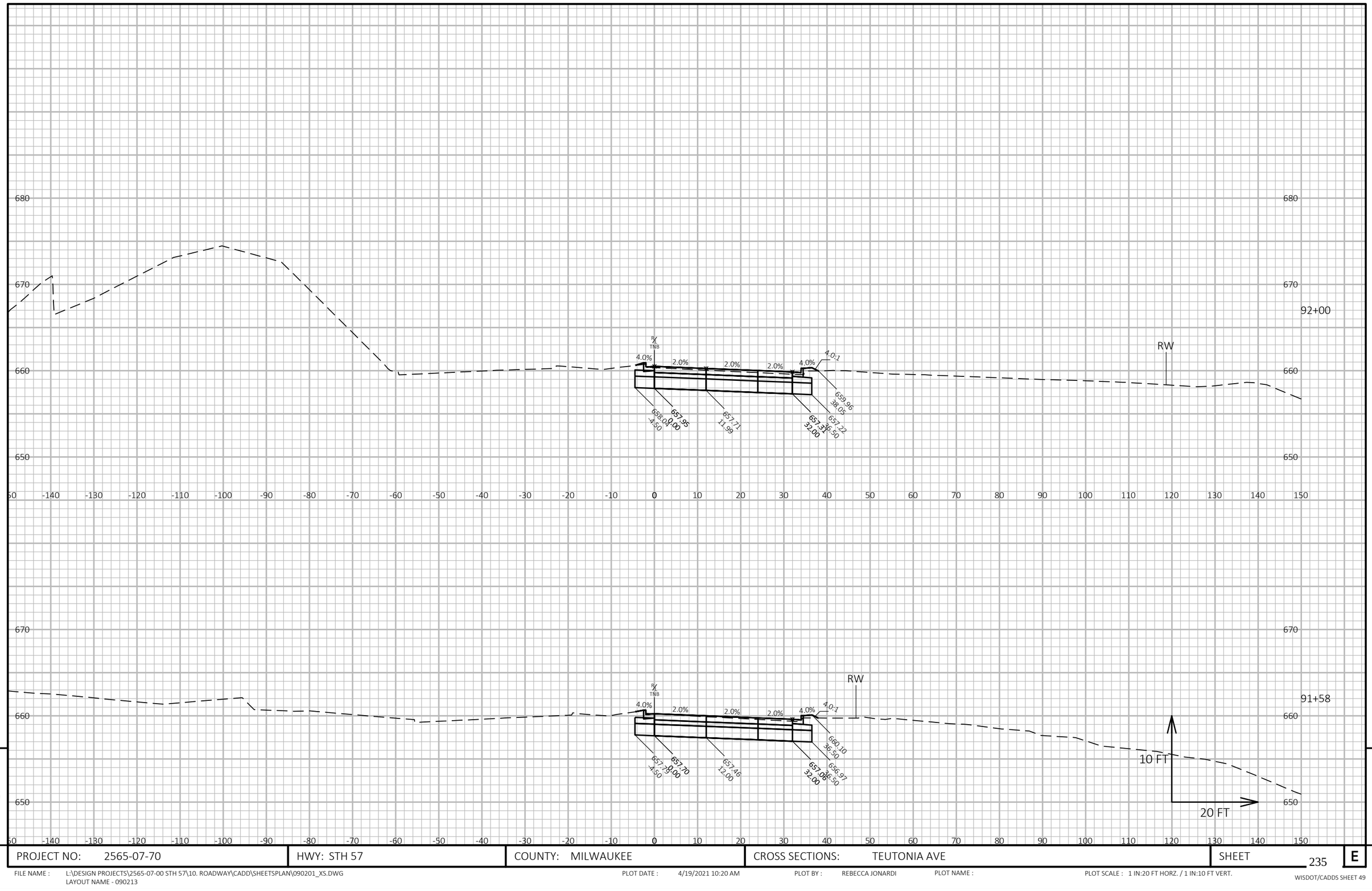


9 9

PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	CROSS SECTIONS: STH 57	SHEET 234	E

FILE NAME : L:\DESIGN PROJECTS\2565-07-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090212

PLOT DATE : 4/19/2021 10:20 AM PLOT BY : REBECCA JONARDI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



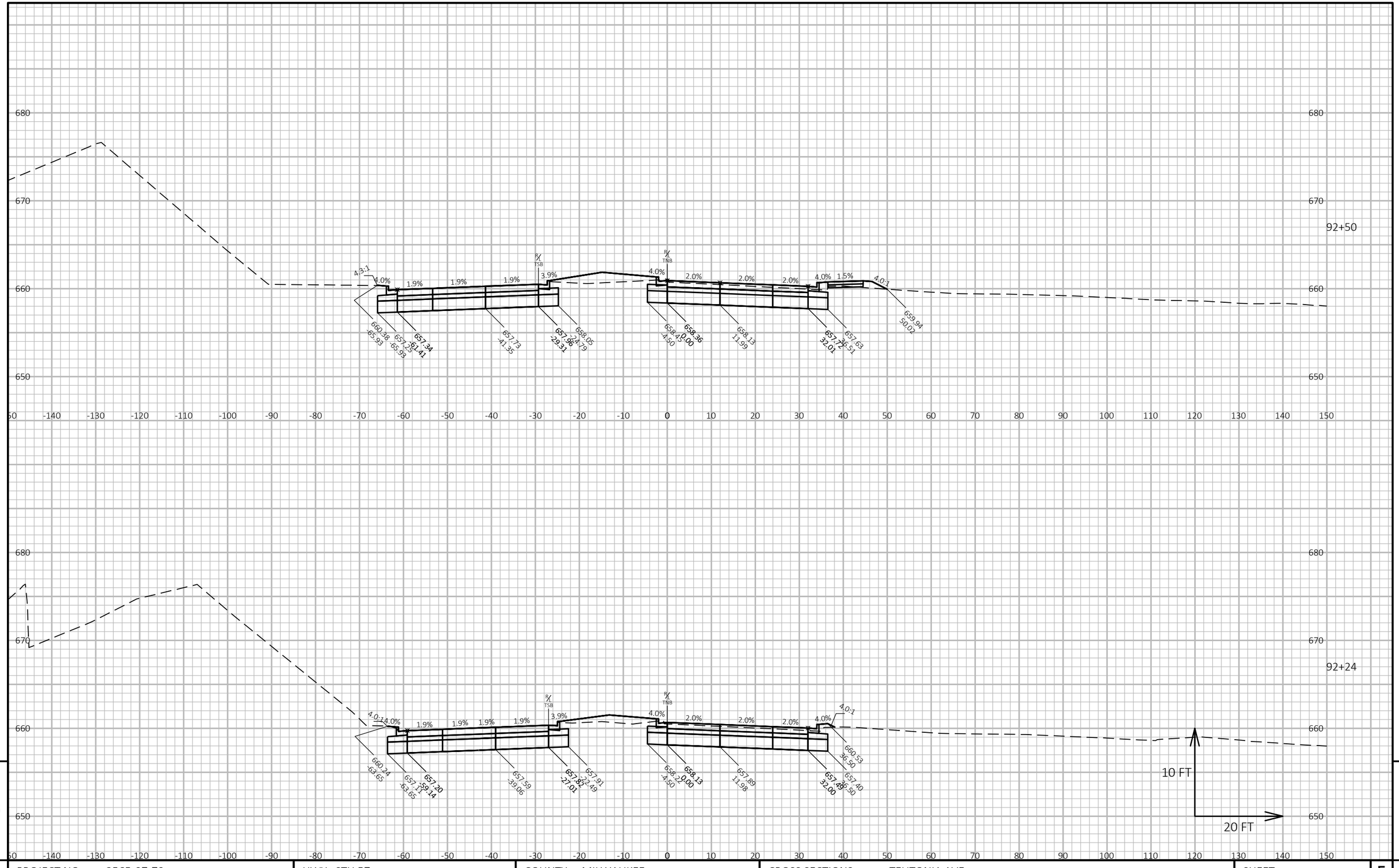
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9

PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	CROSS SECTIONS: TEUTONIA AVE	SHEET 235	E

FILE NAME : L:\DESIGN PROJECTS\2565-07-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090213

PLOT DATE : 4/19/2021 10:20 AM PLOT BY : REBECCA JONARDI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

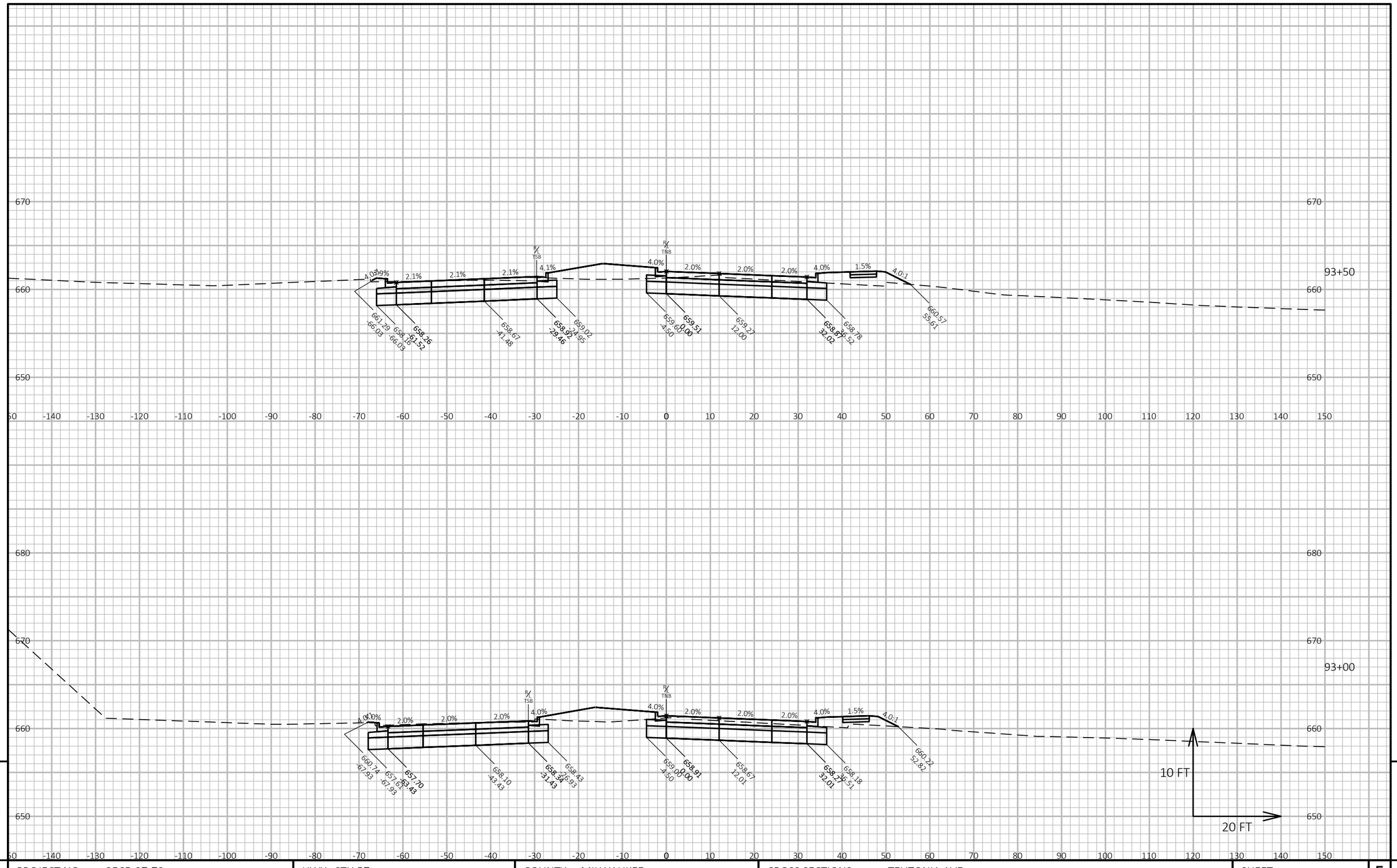


PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	CROSS SECTIONS: TEUTONIA AVE	SHEET 236 E

FILE NAME : L:\DESIGN PROJECTS\2565-07-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090214

PLOT DATE : 4/19/2021 10:21 AM PLOT BY : REBECCA JONARDI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

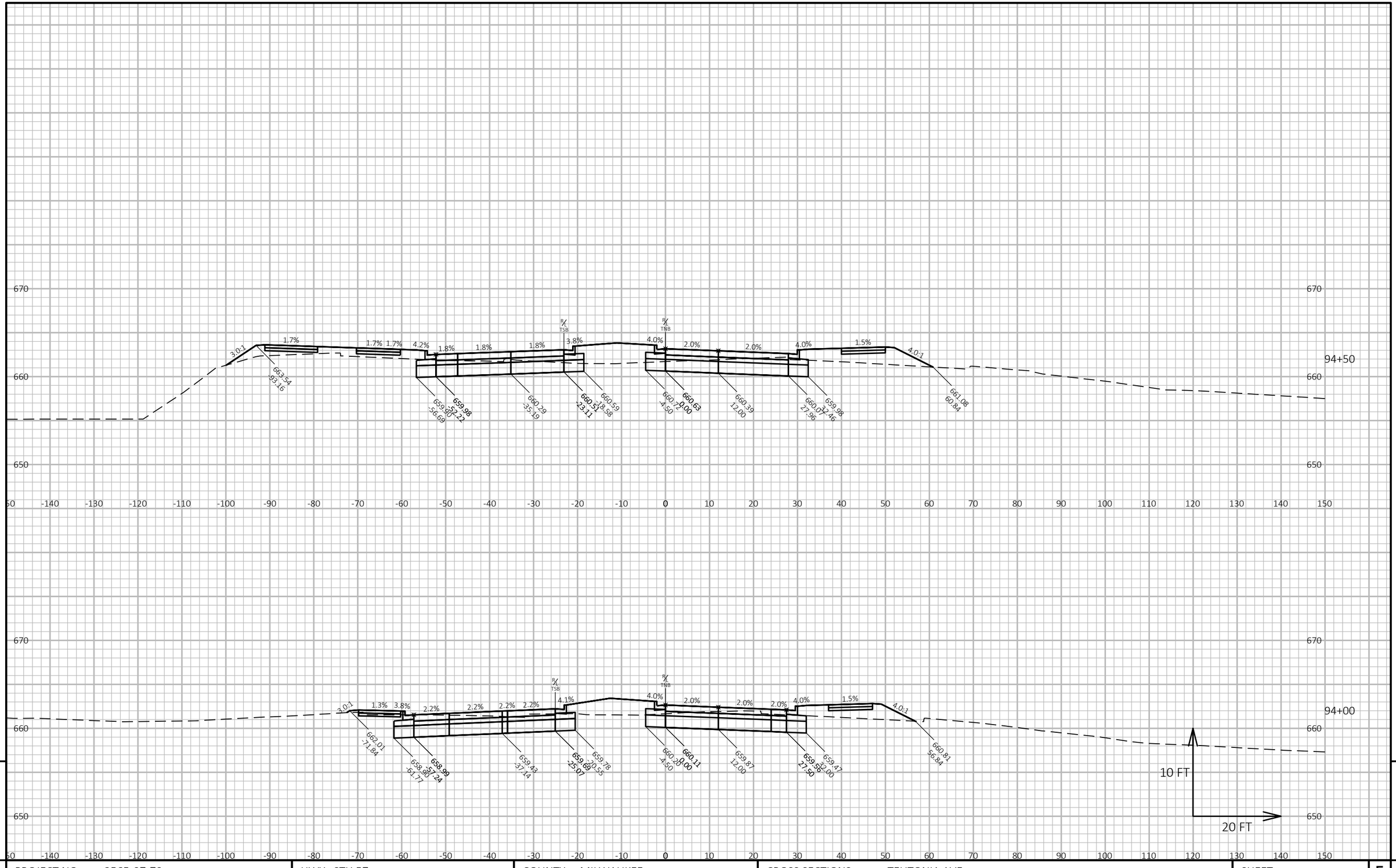
WISDOT/CADDS SHEET 49



PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	CROSS SECTIONS: TEUTONIA AVE	SHEET 237	E

FILE NAME : L:\DESIGN PROJECTS\2565-07-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090215

PLOT DATE : 4/19/2021 10:21 AM PLOT BY : REBECCA JONARDI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

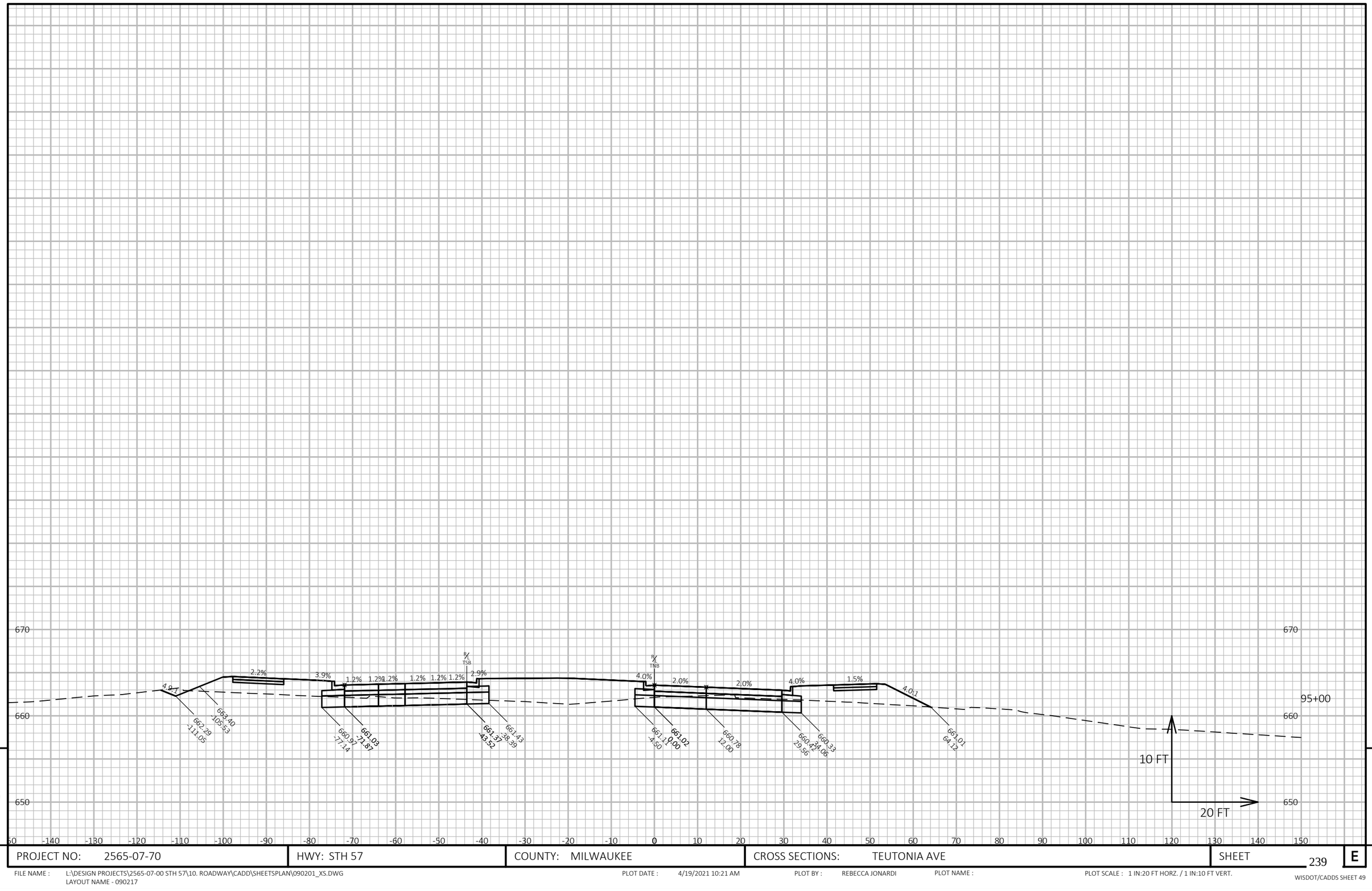


PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	CROSS SECTIONS: TEUTONIA AVE	SHEET 238 E

FILE NAME : L:\DESIGN PROJECTS\2565-07-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090216

PLOT DATE : 4/19/2021 10:21 AM PLOT BY : REBECCA JONARDI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



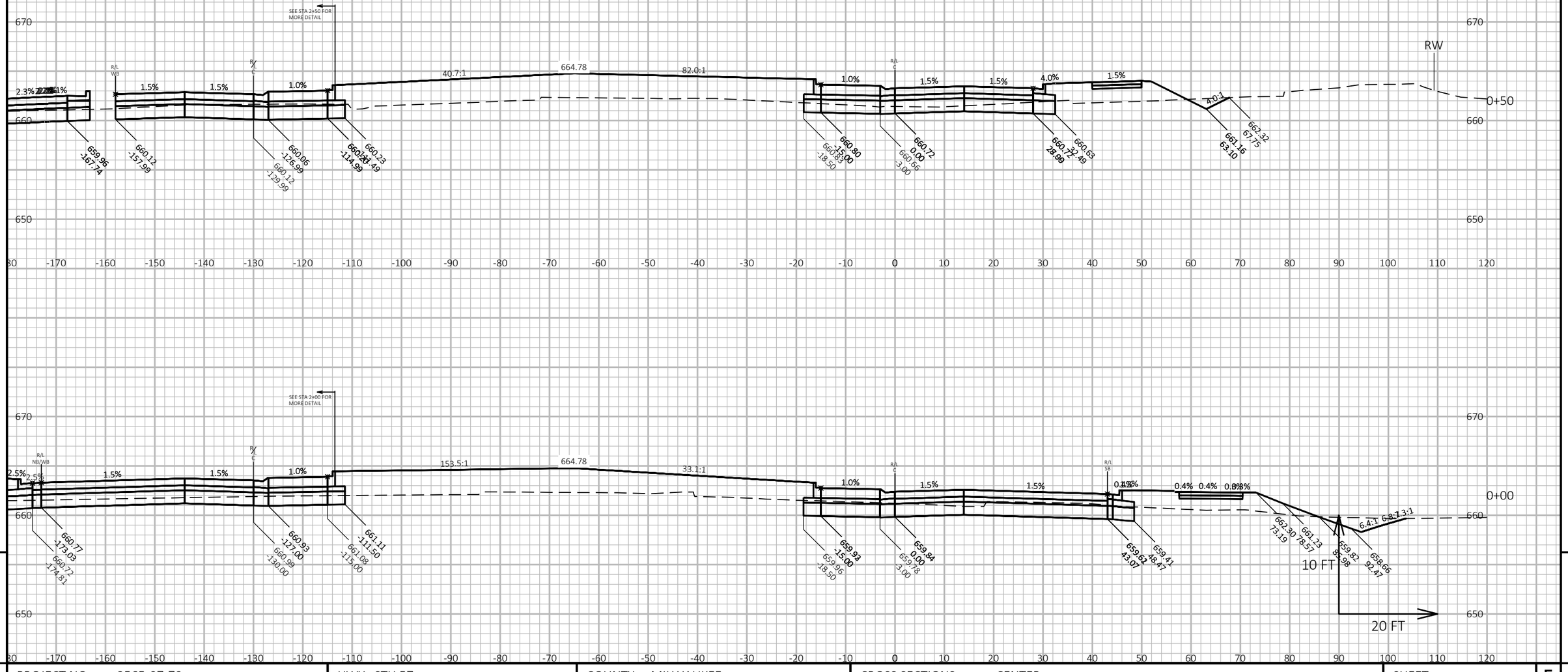
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9

PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	CROSS SECTIONS: TEUTONIA AVE	SHEET 239	E

FILE NAME : L:\DESIGN PROJECTS\2565-07-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090217

PLOT DATE : 4/19/2021 10:21 AM PLOT BY : REBECCA JONARDI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



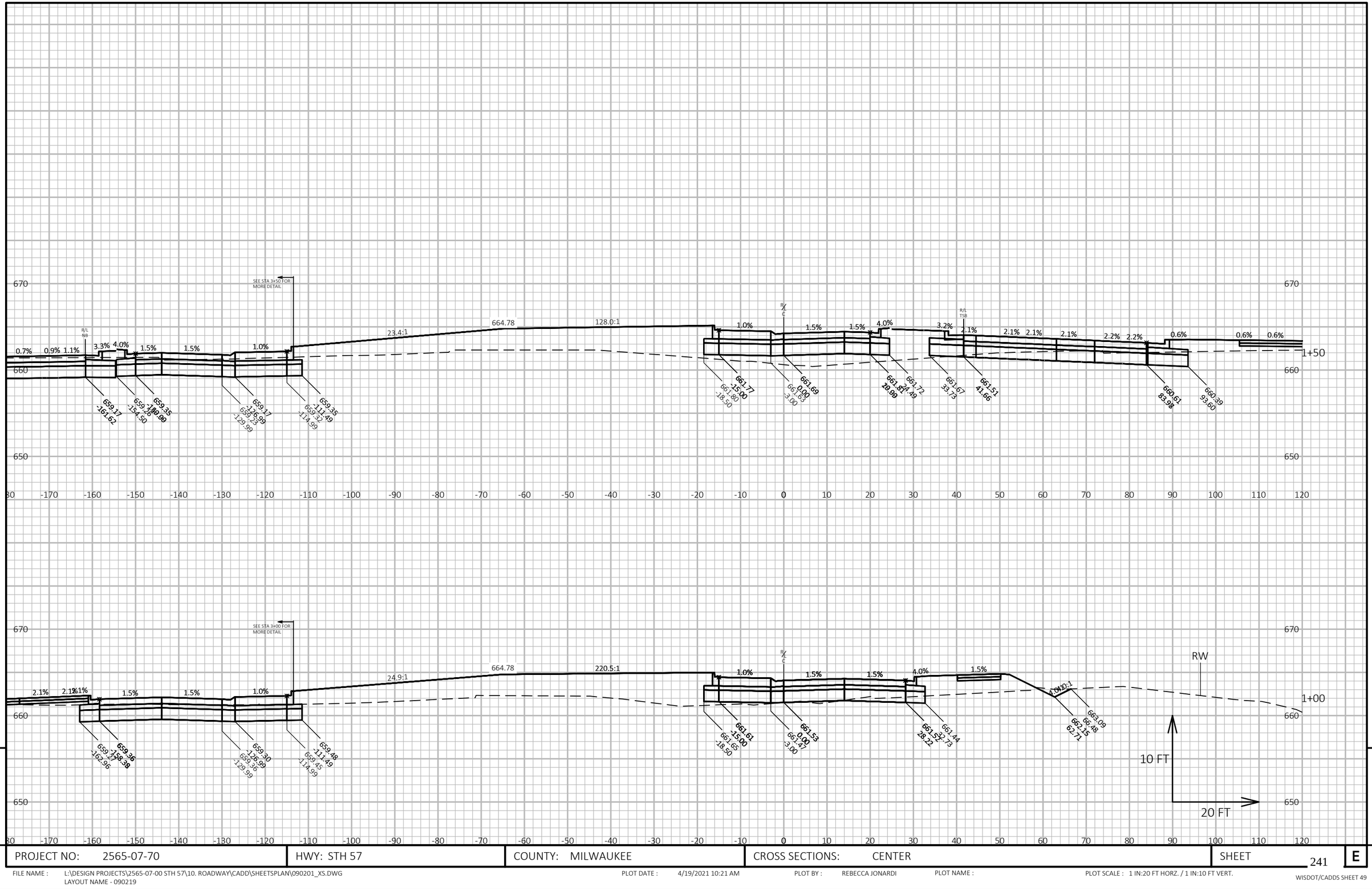
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9

PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	CROSS SECTIONS: CENTER	SHEET 240	E

FILE NAME : L:\DESIGN PROJECTS\2565-07-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090218

PLOT DATE : 4/19/2021 10:21 AM PLOT BY : REBECCA JONARDI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

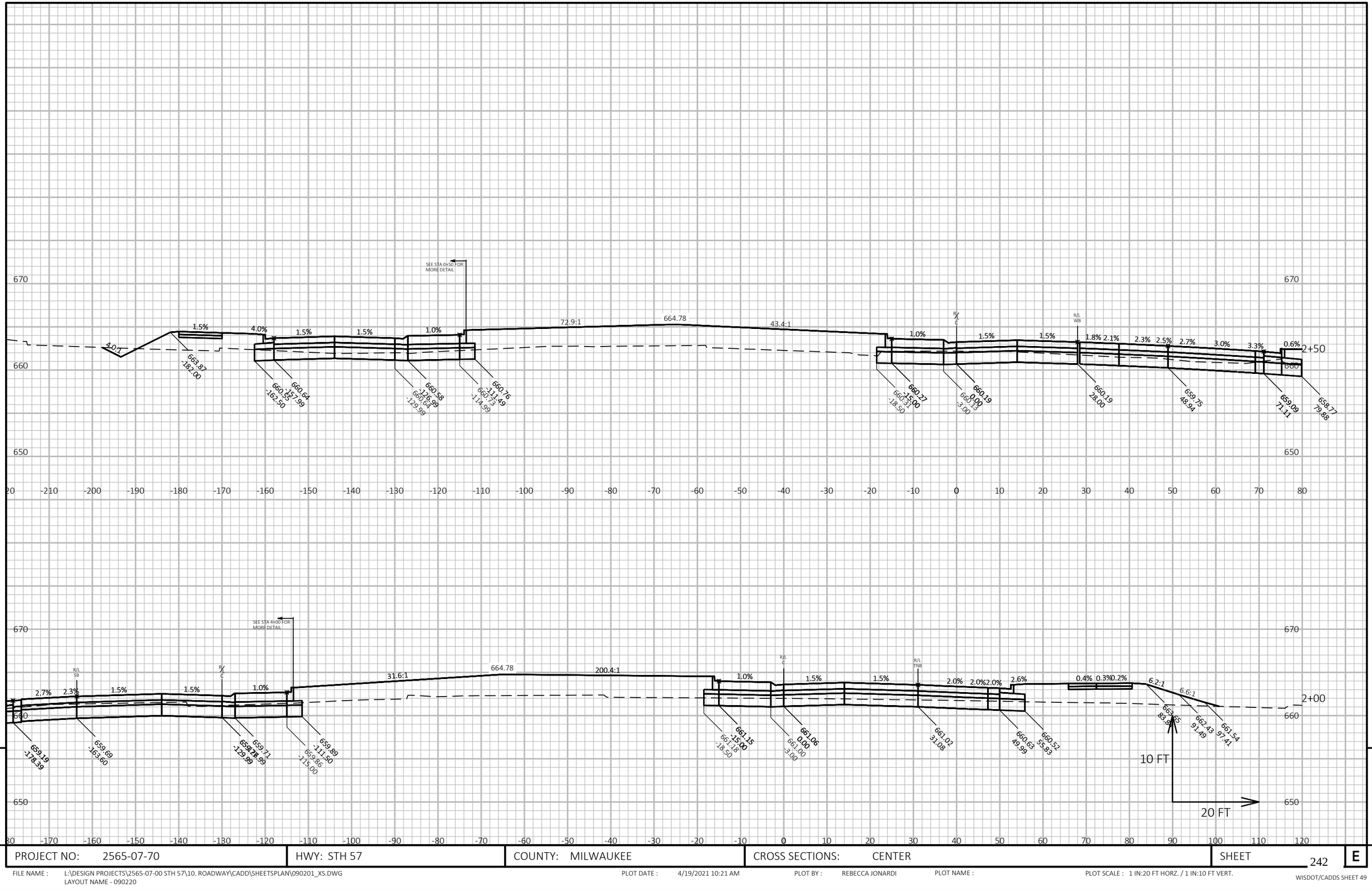


9 9

PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	CROSS SECTIONS: CENTER	SHEET 241	E

FILE NAME : L:\DESIGN PROJECTS\2565-07-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090219

PLOT DATE : 4/19/2021 10:21 AM PLOT BY : REBECCA JONARDI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

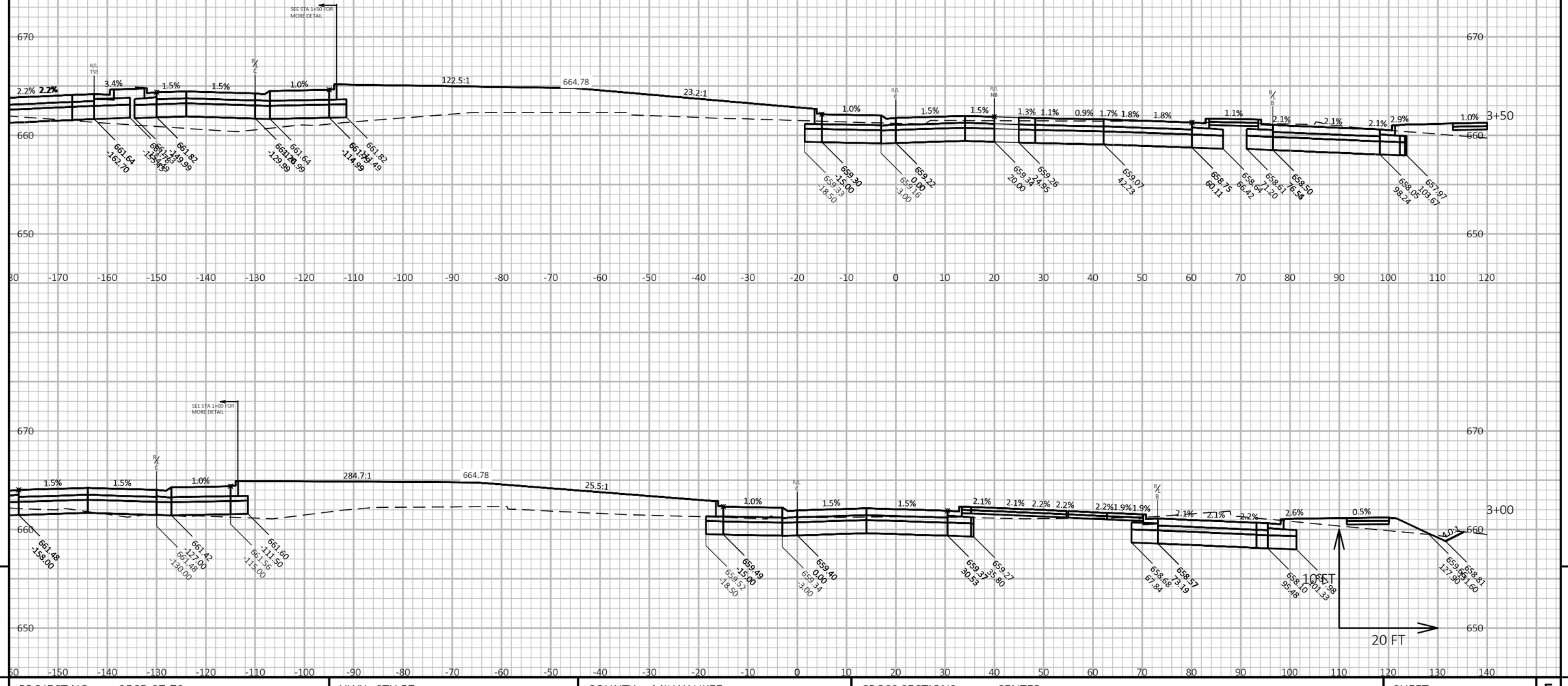


9 9

PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	CROSS SECTIONS: CENTER	SHEET 242	E

FILE NAME : L:\DESIGN PROJECTS\2565-07-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090220

PLOT DATE : 4/19/2021 10:21 AM PLOT BY : REBECCA JONARDI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



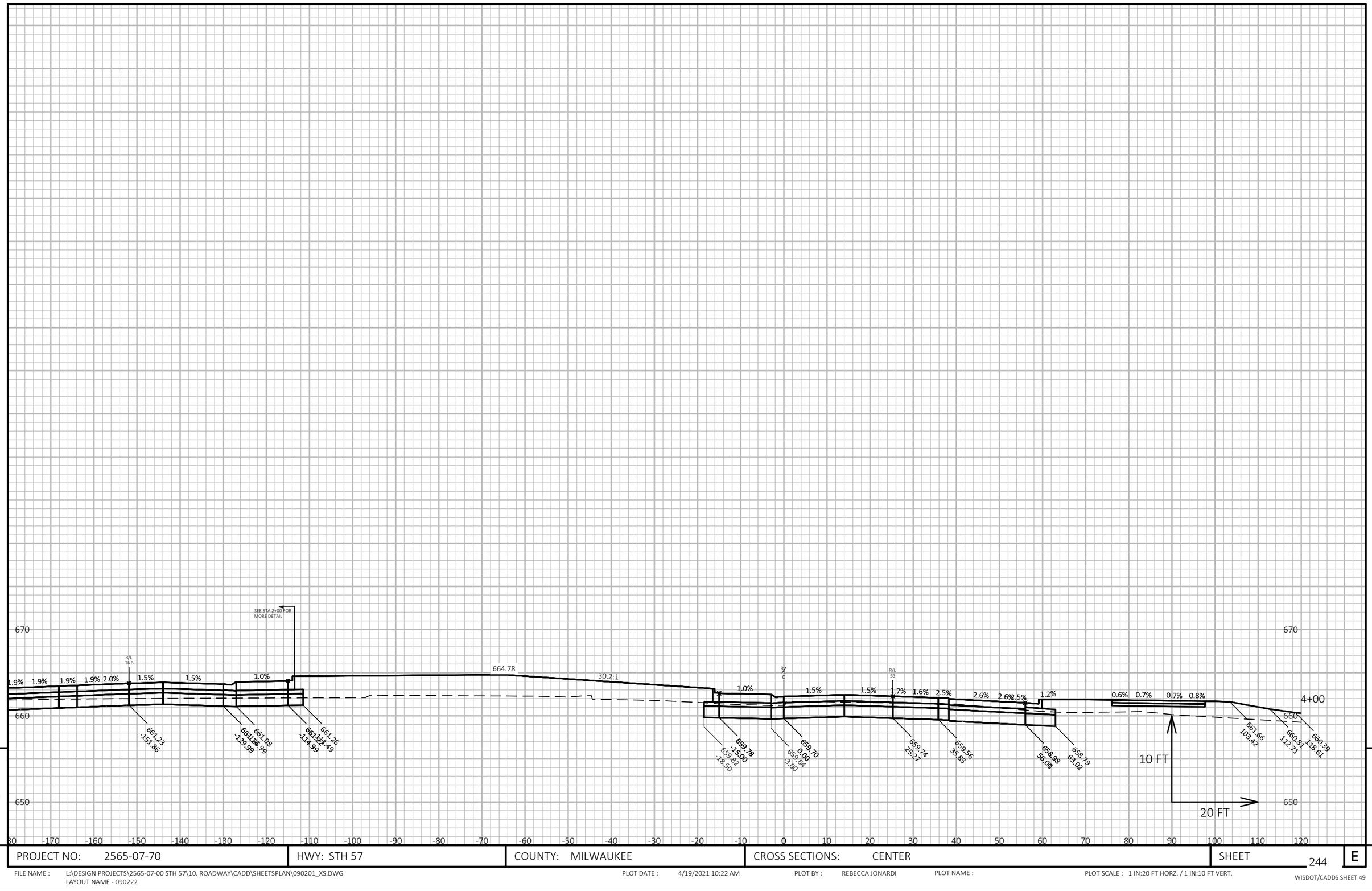
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PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	CROSS SECTIONS: CENTER	SHEET 243	E

FILE NAME : L:\DESIGN PROJECTS\2565-07-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090221

PLOT DATE : 4/19/2021 10:22 AM PLOT BY : REBECCA JONARDI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9 9

PROJECT NO: 2565-07-70	HWY: STH 57	COUNTY: MILWAUKEE	CROSS SECTIONS: CENTER	SHEET 244	E

FILE NAME : L:\DESIGN PROJECTS\2565-07-00 STH 57\10. ROADWAY\CADD\SHEETSPLAN\090201_XS.DWG
LAYOUT NAME - 090222

PLOT DATE : 4/19/2021 10:22 AM PLOT BY : REBECCA JONARDI PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

Notes

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
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